



Master Gardener Thymes



WWW.LAKELANDSMASTERGARDENER.ORG

January 2012

Notes from the LMG President

By Patti Larson

It was just a few years ago my husband and I graduated from the Master Gardener class and then completed the 40 hours needed to become a TRUE Lakelands Master Gardener.

When I was asked to be president, VP or treasurer two years ago, I was very reluctant to agree for any of the positions....Little did I know that the organization was in dire need of members to volunteer for leadership roles. I have to admit, I was surprised that members were not interested in leading such a great group of individuals! Unfortunately, we are still in the same position today... the office of VP is still not filled. We have various committees that still need chairman---Community Projects, Programs and Speakers, and Fund Raising (Julee Marshal has volunteered to chair the 2012 Plant sale). Hats off to the members that have stepped forward to be on the Board--- THANK YOU!

After asking many members to volunteer for the Board, the overwhelming answer has been NO....I realize this is happening to many organizations but how can it happen to ours? Please consider helping out....

In the upcoming year we would like to start new programs that are MINI EDUCATIONAL SESSIONS for members only. The speaker would be one of you, speaking on any plant/nature topic that you would like to share with a small group. It can be held in your home, garden, at the Clemson office or anyplace that is convenient for you. If you are interested, please email me greenwood_patti@yahoo.com or call me—554-1600.

We are as strong as an organization that YOU as members want it to be..... This organization has accomplished many great things for our community and various organizations... I am honored to be your president this year. Thank you for this opportunity! ***Alone we can do little; together we can do much.....***

This New Year of 2012

Mend a quarrel...Seek out a forgotten friend...Write a love letter...Share some treasure...
Give a soft answer...Encourage youth.... Keep at promise...Listen...Apologize if you were wrong...

Think of someone else...Be kind and gentle...Laugh a little. Laugh a lot more...
Express your gratitude...Gladden the heart of a child...Take pleasure in the beauty and wonder of the Earth...

Speak your love. Speak it again....Speak it still once again! By Patti Larson

Dates to Remember:

- JAN. 12TH 6 PM **BOARD MEETING— DISCUSS UPCOMING YEAR** CLEMSON EXTENSION OFFICE
- FEB. 9TH, **RECOGNITION DINNER** GREENWOOD METRO DISTRICT 6:30 PM
- MARCH 8TH, **BOARD MEETING** 6:30 PM EXTENSION OFFICE
- APRIL 12TH, **SPEAKER MEETING -LAKELANDS BEE KEEPER SOCIETY** 6:30 PM LIBRARY
- MAY 10TH, **LMG PICNIC** MAGNOLIA PARK 6:30 PM
- JUNE 14TH, **BOARD MEETING** EXTENSION OFFICE 6:30 PM
- JULY 12TH, **SPEAKER MEETING, ANN BARKLOW** LIBRARY 6:30 PM
- AUGUST 9TH, **BOARD MEETING** EXTENSION OFFICE 6:30 PM
- SEPTEMBER 13TH, **SPEAKER MEETING** LIBRARY 6:30 PM
- OCTOBER 11TH, **BOARD MEETING BUDGET MEETING** EXTENSION OFFICE 6:30 PM
- NOVEMBER 8TH, **SPEAKER MEETING** LIBRARY 6:30 PM
- DECEMBER 13TH, **CHRISTMAS PARTY** GREENWOOD METRO DISTRICT 6:30 PM

****The Awards Dinner is now in Feb....for 2010 Graduates, 2011 MG Interns, and recognition for all LMG and hours volunteered.****

The Lakelands Master Gardeners Association is a volunteer organization made up of Master Gardeners from Abbeville and Greenwood Counties in SC.

Master Gardener Challenge:

By James Hodges

Master Gardener exercise: Splitting bark on numerous trees in a planting (all same cultivar)
Diagnose my Live Oak Tree "High rise" cultivar, photo -May 2011 Greenwood.



Concerns:

Trees are long term vegetation around our homes, businesses, parks, city streets and woodlands while shrubs and herbaceous vegetation comes and goes more quickly. If you picked the wrong shrub or flowers they can be quickly yanked up and replaced with little time lost or expense. Within a few years these new plants "establish" in the new landscape scheme, but it is not that simple with trees.

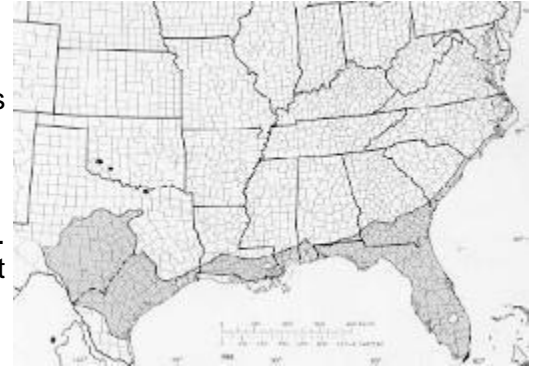
Large maturing shade trees are long term investments of time and money to the landscape that need 5, 10 or 20 years to provide major benefits to the owner. A tree is the main course in the landscape and poor selection choices can be devastating.

A disturbing trend is the selection of trees without thorough analysis of their adaptability to local and microsite conditions. I sometimes have difficulty watch-

ing the HGTV type programs with landscape designers because of their emphasis on form and foliage with no mention of adaptability and tolerance to local conditions. The recent emphasis on using natives has its own set of traps and pitfalls.

Clues:

Local is local when it comes to climate. Native is not necessarily native to local. The statement may seem to be a riddle, but it is an important riddle. Native range of Live Oak (*Quercus virginiana*) USFS Harms. W.L



Live Oak is native to South Carolina, but it is not native to (local) Greenwood.

Here is a question for astute Master Gardeners. Why? Or give some reasons

Suggestions:

Internet searches ---

Dr. Kim Coder, University of Georgia --Live Oak

Dr. Ed Gilman, University of Florida urban trees- live oak.

"High rise" Live Oak cultivar information

1. Climate
2. Soils
3. Temperatures
4. Genetic Variation

What event in 2010 may have caused problem?

What might be your recommendations?

Continuing education credits available

Lakeland Master Gardener Name Badge Order Form

Master Gardener Information			
Last Name		First Name	
Mailing Address			
City		Zip Code	
Home ()	Cell ()	Other ()	
e-mail address			
For Office Use Only	Received	Confirmation	Delivered

Orders are filled upon receipt of order form. There is no deadline to send money and form to Patti.

Please **Print** Information the way you would like it to appear on your name badge

Master Gardener Name Badge Information			
Last Name		First Name	
County		Year Graduated From Master Gardener Training Course	

Cost: \$10/badge Cash or Check accepted

Make Checks payable to: Lakelands Master Gardeners *Remit Payment and Order Form together to:*

Patti Larson
325 Nautical Way
Greenwood, SC 29649

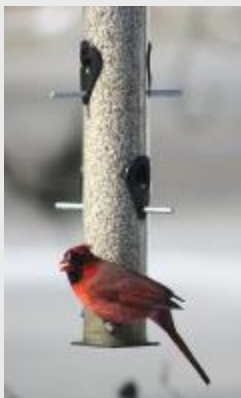
Questions, please e-mail Patti Larson: greenwood_patti@yahoo.com or call 554-1600



Winter Gardening Tips for Wildlife

By Ann Barklow

1. Provide food for wildlife with native plants that offer acorns, berries and seeds
2. Clean and fill your birdbath regularly. Invest in a birdbath heater to prevent frozen water and make sure your birds always have a drink
3. Anchor your old holiday tree in a secluded part of your yard and wildlife will use it as shelter from winter weather
4. Provide additional cover for wildlife by starting a compost pile of needles, pinecones and wreaths from your holiday decorations



Create a wildlife-friendly yard officially certified by National Wildlife Federations Wildlife Habitat Program at www.nwf.org/gardenforwildlife

Thank You from James Hodges

Thank you from Susan and me to Master Gardeners for all the cards to Susan. They helped to cheer her up during the wait and the recovery. She had surgery Dec. 24th and is recovering.



Membership form

Lakelands Master Gardener Association

Membership Renewal

Check one: Renewal Lifetime Member Update New Member/Transfer

Please renew your MG membership by completing this form and paying your dues for the coming year. Members who pay dues by October 15th will be included in the Lakelands Master Gardener Association Membership Directory and will receive uninterrupted membership benefits. Lifetime Members please update your contact info and indicate your interests for the coming year.

Master Gardener Membership Dues: (Select your Membership Category by checking)

- Individual, 59 years old and under \$ 15
- Individual, 60+ years old \$ 10
- Married couple, 59 and under \$ 20
- Married couple, 60+ \$ 15
- Individual, Lifetime Membership \$ 125

Make your check payable to Lakelands Master Gardener Association and Mail to:

Patti Larson
325 Nautical Way
Greenwood, SC 29649

Membership dues are due by October 15th of each year.

Name: _____ Spouse: _____

Address: _____

City/St/Zip: _____

Phone# - Home: _____ Work: _____ Cell: _____

E-Mail Address: _____

Year Graduated MG Program: _____ Transfer? (Y/N) _____ From: _____

- Check here if you do **not** wish to be listed in the directory.
 - Special Instructions for publishing personal data in directory:
-

Please indicate the committee(s) you are interested in working with: (Number from most important to least important)

_____ Community Projects	_____ Membership	_____ Public Relations
_____ Education	_____ MG Office	_____ Social Activities
_____ Finance & Fund Raising	_____ Newsletter	_____ Web Site
_____ Phone	_____ Programs and Speakers	

Suggested topics/activities for the meetings or continuing education:

(Rev: 7-12-2011)



**Special Winter Planting at Seaboard
Jardin Maravilloso!**

**Special Thanks to Park Seed for their
grand donation of bulbs and plants!**

**Saturday - January 7, 2012
9:00– 12:00 noon**

&

**Tuesday - January 10, 2012
10:00am to 12:00pm (noon)**

**Hundreds to plant – Come and help
and create a more beautiful garden!**



~*PUBLIC SERVICE ANNOUNCEMENT *~

**The GREENWOOD FARMER'S MARKET along
with CLEMSON EXTENSION and
THE COUNTY OF GREENWOOD**

proudly sponsors its
SPRING PLANT SALE FESTIVAL
**Friday & Saturday, April 6th & 7th from 8:00AM -
4:00PM**

The Lakelands Master Gardeners will be available to answer questions and give expert advice throughout the Festival. Plus they'll have plants from their own gardens for sale.

Local Growers from Greenwood and surrounding counties with flowers, vegetable plants and herbs will be there with their proven winners.

Crafters can supply you with items to “dress up” your yard and garden.

Whether you are a hobbyist, a seasoned gardener, or new to the area this is an excellent opportunity for you to discover what works and what doesn't for gardeners in the South.

If you too are a grower of plants or crafter of yard and garden items you should consider participating as a vendor. Spaces are \$25 and the deadline to sign up is April 2nd.

This event is Free to the Public and will be held Rain or Shine inside the Farmer's Market Building located on Hwy 72-221E.

For further information contact the Greenwood Extension Office at 864-223-3264 or Newton O'Dell, Market Manager at 864-223-6305.



Lakelands Beekeepers Association Beginning Certified Level Beekeeping Class

Location: Greenwood County Library Auditorium
600 South Main Street, Greenwood, SC

Dates/Times: Thursdays, February 2 through March 22, 2012
6:30 to 9:00 pm

Costs: \$55 per individual, \$80 for couples (scholarships for youth 10-18)
Includes: text, handout materials, 1 year membership in state and local bee associations

Session topics include:

- Basics (getting started, basic equipment, selecting an apiary site, supply sources)
- Getting to know the honeybee (bee biology, races of bees, bee history)
- Diseases and Pests (treatments, pesticides, IPM)
- Building equipment & lighting a smoker
- Working with Honeybees (starting a bee hive, installing a package/nuc, swarms and swarm control)
- Thinking like a honeybee (things they collect, nectar & pollen sources, products of the honeybee, honey packaging and labeling)
- Review and Certified Level written test
- Field day at a local apiary: hands on instruction

To register mail the appropriate fee with the following information to: Donna Boozer, 311 Grange Road, Greenwood, SC 29646.
Make checks payable to Lakelands Beekeepers Association.

Name: _____

Address: _____ Zip: _____

Telephone: _____ Cell #: _____

Email: _____

Would you like to be on the email distribution list? _____ Yes _____ No

For more information, call Donna Boozer, 864-229-1627, donnaboozer@embarqmail.com
Registration deadline: January 20, 2012

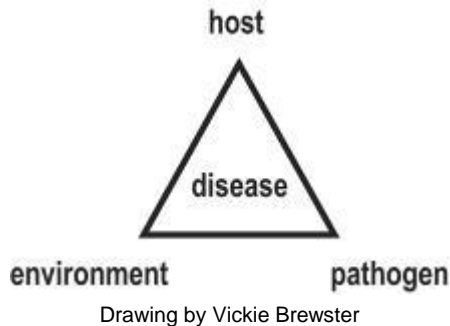
Back to Basics

The Plant Disease Triangle

By Vincent Plotczyk

What is the Plant Disease Triangle?

The Plant Disease Triangle is a central concept in plant pathology based on the principle that disease is the result of an interaction between a susceptible host, potential plant pathogen, and the appropriate environment that will allow the pathogen to infect the susceptible host. If any of these factors is missing, then the disease will not occur.



What is a susceptible host?

A plant that is prone to develop disease when infected by a pathogen.

Symptoms are the expression of disease by a plant as a response to a pathogen.



Leaf Spot

Leaf spots are an accumulation of necrotic (dead) cells. Not all symptoms involve necrosis. Some other types of symptoms may be change in color, or the change in the form of the plant such as stunting or wilting. Another symptom is defoliation. Defoliation is the process in which the plant may lose all its leaves and sometimes drop its fruit due to disease. Some more symptoms are twisting, reddening, yellowing, browning, blighting, root rot, fruit rot, or other abnormalities.

Many symptoms affect individual plants, but disease symptoms may also affect whole groups of plants.

Symptoms will often change over time as the disease progresses.

Remember in addition to noting symptoms, it is important to accurately identify the species and sometimes the cultivar

of the affected plant. Remember also that common names vary from region to region, and some plants may have the same name.

Signs are structures or products of a pathogen on or in diseased plants.

Some signs can be visible to the unaided eye, while others can only be viewed with a hand lens or microscope.



Rust

Signs of some pathogens can be easier to observe than other pathogens. Black powdery spores are characteristic of smut diseases and orange powdery spores are characteristic of rust disease.

Some other examples of signs include fruiting bodies, bacterial ooze, hyphae, and mycelium.

A plant pathogen causes disease in a living host and can be a fungus, bacteria, virus, parasitic higher plants or nematodes.



Jijing Song and Juan Shi, Beijing Forestry University, Bugwood.org

Nematode

Plant pathogens require specific environmental conditions to survive and infect plant tissue.

Remember that the pathogen is not the disease.

Environmental conditions such as poor air circulation, plant wounds or physical injury, excessive soil moisture, recent temperatures, soil type, pH, and human activities are factors that affect plant diseases.



R.J. Reynolds Tobacco Company Slide Set, R.J. Reynolds Tobacco Company, Bugwood.org

Drowning due to poor soil drainage



H.J. Larsen, Bugwood.org

Peach wart

The five major groups of biotic pathogens are fungi, bacteria, viruses, nematodes, and vascular plants.



Andrej Kunca, National Forest Centre - Slovakia, Bugwood.org

Wood Rot Fungus

Two Types of Plant Diseases:

Abiotic (non-living) diseases are also referred to as non-infectious diseases.

These diseases do not spread from plant to plant. Some examples of Abiotic plant diseases are chronic exposure to air pollutants, excessively low temperatures, declines, nutrient deficiencies or imbalances.



Petr Kapitola, State Phytosanitary Administration, Bugwood.org

Nutrient Deficiencies

There are no signs of Abiotic agents that cause plant disease.

Biotic (caused by a pathogen) are referred to as infectious diseases and tend to be host specific.

Managing Plant Diseases

Plant diseases are managed by manipulating the disease triangle: the plant, the pathogen, and/or the crop production environment.

Plant diseases can be managed with appropriate cultural practices like crop rotation, proper planting dates and fertilization combined with resistant varieties when available. Appropriate use of pesticides in an integrated disease management plan may also be an important part of controlling certain diseases. Pesticides used to control plant diseases are classified as fungicides, bactericides, and nematicides.

When using a fungicide, bactericide or nematicide remember to read and follow all label directions. The label is the law!

Sources

The South Carolina Master Gardener Training Manual

Essential Plant Pathology
Second Edition
Gail L. Schumann and Cleora J. D'Arcy

Ohio State Extension Fact Sheet
PP401.01
Plants Get Sick Too
Sarah D. Ellis
Michael J. Boehm
Department of Plant Pathology

The Peanut Files
University of Nebraska-Lincoln
Department of Plant Pathology

The Texas Poinsettia Producers Guide
Poinsettia Diseases and Control

University of Kentucky
College of Agriculture
Cooperative Extension Service
Fundamental Principles of Plant Pathology for
Agricultural Producers
Paul Vincelli, Extension Plant Pathologist

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Jijing Song and Juan Shi, Beijing Forestry University, Bugwood.org

Plant Disease Triangle Drawing by Vickie Brewster

Vincent Plotczyk

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www.lakelandsmastergardener.org Find us on Facebook



Shutterfly - <http://lakelandsmastergardeners.shutterfly.com>

Clemson Cooperative Extension Office– Greenwood– 864-223-3264

LAKELAND MASTER GARDENERS

Newsletter Editor-Janet Ledebuhr
articles due by the 25th of the month—
queenofseaford@yahoo.com

LMG General Meetings will be held at: The
Greenwood Metro District Meeting Room
110 Metro Dr., Greenwood, SC 29646

Directions
*From Self Regional Hospital: Take West
Alexander to Premier Dr. – stay on Premier
Dr. by turning right – turn left on Metro Dr.
From 225 Ext: Going South on 225 Ext.,
turn left on W. Alexander, turn right on Joe
Bernat Dr., turn left on Premier Dr., turn
right on Metro Dr.*

*Board Meetings are held in February, April,
June, August, and October on the second
Thursday of the month @ 6:00 pm @ The
Clemson Extension Office @ The Brewer
Center*

Miles and Hours - please submit to
Linda Halsey
halseyfarm@embarqmail.com, 864-374-
7253, or P.O. Box 82, Hodges, SC 29653

Don't forget to check the Shut-
terfly website for photos. See
address at the top of the page.
Chuck keeps updating the
page with more photos of our
activities. The password is avail-
able.

Master Gardener Office

Need hours? Volunteer to work in
the Master Gardener office any
time Monday thru Friday. The of-
fice hours are from 8:30a.m - 5
p.m. Schedules are posted at the
office for sign-ups. We encourage
everyone to work in the office for
Office Volunteer Hours.

You can sign up two ways: Go to
the Extension
office and
add your
name to the
schedule; or
call the Ex-
tension office
at 223-3264.



VOLUNTEER OPPORTUNITIES

- | | |
|--|-----------------------------|
| Have a committee where you could use an extra hand? Send it to the newsletter and it will be listed. | 2. Community Projects |
| 1. Vice President | 3. Finance and Fund Raising |
| | 4. Programs and Speakers |
| | 5. Social Committee |

☹ **Missing a newsletter?** Looking for an earlier edition? All of our newsletters can be found at our website at— <http://www.lakelandsmastergardener.org/newslet2011.html>

THE LAKELANDS MASTER GARDENER BOARD 2012

- | | |
|--|--------------------------------------|
| President- Patti Larson | Newsletter- Janet Ledebuhr |
| Vice President- OPEN | Phone- Nicole Ellis |
| Treasurer- Chuck Bender | Programs and Speakers- OPEN |
| Secretary- Sandy Orr | Media – (3 chairs)- Catherine |
| Past President- Jimmy McInville | Swindell (PR) Doug Crawford |
| Clemson Advisor- James Hodges | (Facebook) Vince Plotczyk (Web Site) |
| Community Projects- OPEN | Social- OPEN |
| Education Co-Chair- Linda Halsey and Helen Spiller | Office- Vince Plotczyk |
| Finance and Fund Raising- OPEN | |
| Membership- Cindy Wilkins | |

Volunteer hours are reported quarterly to Linda Halsey at halseyfarm@embarq.com. (March, June, September and December) Attached you will find an Excel form for the fourth quarter reporting of 2011 and first quarter of 2012. If you do not have Excel and need a word document, please let me know—queenofseaford@yahoo.com

This Association shall be operated for the growth and development of its members and for the following purposes:

1. Sharing horticultural information and guidance with South Carolina residents based on research specific to the local climate, soils, and plants;
2. Volunteering time to assist the Extension Service in meeting the demand for reliable gardening information;
3. Providing volunteer service to improve our communities through a wide variety of horticultural projects;
4. Promoting the training of Master Gardeners and keeping Master Gardeners active in service;
5. Encouraging interest in gardening by all citizens;
6. Encouraging the utilization of all resources for better gardening, including the Department of Agriculture and Clemson University Extension Service;
7. Encouraging local environmental beautification and preservation; and
8. Helping those less fortunate prosper from the benefits of horticulture.