August 2000

Helping Carolinians Increase Their Knowledge of Gardening, Manage Their Landscape Investment & Protect the Environment

> Give Your Lawn the TLC Treatment

Enviro-Tip



Garden Spot

National Association of County Agricultural Agents Best Team Newsletter

Southern Extension Forest Resource Specialists Award of Excellence

NC STATE UNIVERSITY NORTH CAROLINA COOPERATIVE EXTENSION

COLLEGE OF AGRICULTURE & LIFE SCIENCES

extension's Successful

JC Raulston Arboretum Plant Focus

Ornamental Cabbage and Kale Add Variety to Fall Gardens

rnamental cabbage and kale offer great color and texture for gardeners and landscapers in search of plants to add fall and winter interest to southern gardens. These plants are pretty on their own or teamed with cool-weather annuals such as pansies, violas or dianthus.

Botanically, all varieties of ornamental cabbage and kale are called *Brassica oleracea* var. *acephala*. For convenience, they are grouped by leaf shape. Ornamental cabbage has round, smooth leaves with wavy margins. Those with deeply divided or fringed leaves are classified as ornamental kale. Both categories offer hardy varieties with red, pink or white leaves that like winter frost.

Though well-suited to all of North Carolina, these plants will retain their show the entire winter only in coastal areas and warmer parts of the Piedmont. Most will go by the wayside once temperatures drop below 15 degrees. Nevertheless, even mountain gardeners can achieve three months of color with plants set into the flower bed in late September. Classified as ornamentals and grown for landscape purposes, these varieties are edible but not as tasty as vegetable varieties. Consider using the leaves as garnishes and table decorations.

Varieties were tested in trial gardens at the JC Raulston Arboretum at NC State University. Varieties with the longest performance include 'Osaka White,' a cabbage with lightly serrated leaves with white centers; 'Rose Bouquet,' a cabbage with deep pink centers and wavy leaf margins; and 'Flamingo Plumes,' a kale with notched leaf margins in colors of fuchsia to magenta on a purple leaf. Look for these and other varieties such as 'Peacock Red' kale and 'Tokyo Pink' cabbage at your local garden center this fall.

For a look at several varieties of ornamental cabbage and kale, visit the arboretum in the late fall and winter. Researchers have an active trial program in progress during these months and visitors are welcome. All plants are labeled, so take a pad and pencil to jot down your favorites. The arboretum, located at 4301 Beryl Road in Raleigh, is open year-round from 8 a.m. to 8 p.m. For more information, visit the website at www.arb.ncsu.edu or call (919) 515-3132. *Linda Blue*

Peacock Red' Robert E. Lyons ⊕ 'Osaka White' Robert E. Lyons ⊕ Underwriters > N.C. Division of Forest Resources > Duke Energy > WTVI 42

Robert E. Lyons O Tokyo Pink Robert E. Lyons O

Extension's Successful Gardener





Enviro Booster

A healthy lawn provides many benefits:

Prevents runoff and erosion;

 Helps clean the air by converting carbon dioxide to oxygen; and

 Serves as a filter, capturing and breaking down many types of pollutants before entering streams.

And an extra bonus: it increases a property's value!

Free soil test kits are available at your county Cooperative Extension Center!

Give Your Cool-Season Lawn the TLC Treatment

Ancient Chinese emperors often are credited with being the first to maintain large expanses of turf for beauty and enjoyment. Even though you may not have the economic resources of an emperor, a few basic steps of "tender loving care" (TLC) will ensure your lawn is one of the prettiest in the neighborhood.

Conduct a Site Analysis

An essential step in lawn care is conducting a thorough site analysis. Walk across the lawn and note the species of grass. Estimate how much is desirable grass and whether the quality and density of the stand are sufficient. If the stand of desirable turfgrass is less than 50 percent, renovation and reseeding will be needed.

Next, identify weed, insect or disease problems. Determine whether these pests threaten the longterm viability of your lawn. Many pest or disease problems only temporarily affect lawn aesthetics. Others require control measures to maintain overall lawn quality.

Proper identification and knowledge of pest characteristics are necessary to establish an appropriate control strategy. Your local Cooperative Extension center will help with pest identification and provide pest control information.

Note other factors that affect turf quality: shade and root competition, thatch, excessively dry or wet areas, soil compaction and cultural practices such as mowing and fertilization. These "abiotic" factors lead to poor turf quality and can be more difficult to correct than pest problems.

Remember the Soil Test

Good soil fertility is essential for any lawn to be successful. A soil test will provide information on how much lime, phosphorus and potassium your lawn needs. Fall applications of lime are particularly effective.

Prepare the Site

Proper site preparation can help prevent or correct many problems identified during the site analysis. Selective tree removal can limit shade and tree root competition plus reduce environmental conditions favorable for disease development. Good soil and surface drainage can help reduce disease and weed problems. Soil amendments and a liming/ fertilization program can reduce stress and result in increased pest resistance.

Control perennial weeds identified during the site analysis. Hard-to-control weeds may require the

services of a lawn professional or nonselective herbicides. This type of herbicide will require starting over in areas where it is used.

Close contact between seed and soil is essential for proper seed germination. For new lawns, till soil to a depth of 6 to 8 inches. Before tilling, add organic soil amendments such as compost, lime and fertilizer. In established lawns, core aerate to provide better seed-to-soil contact.

Seeding is usually the fastest and most economical method of establishing grasses. To ensure uniform coverage, use a rotary spreader and apply half the seed in one direction and the other half at right angles to the first pass. Apply a starter-type fertilizer and lightly cover the seed by hand raking or dragging. Rolling the seed slightly will improve seed-to-soil contact and encourage quicker germination.

Consider Water Needs

Water is essential for turfgrass care, but improper management of irrigation often results in turf loss. Reduce the time that foliage remains moist to discourage diseases. Between 5 and 9 a.m. is the most effective and efficient time to water.

When irrigating established lawns, apply water infrequently but deeply. Foot printing, leaf curling and discoloration are indications that turf needs water. New lawns benefit from more frequent irrigation that prevents the seed from drying out.

Feed Your Lawn

Proper fertilization programs should meet the nutritional needs of the turf without promoting excessive growth. Fertilize cool-season grasses such as tall fescue during the cooler months of the year. Fall fertilization is particularly important. Use of slow-release nitrogen sources can limit leaf burn and excessive growth and are particularly useful with young grass or near lakes and ponds. Apply no more than 1 pound of actual nitrogen per application.

Mow at the Right Height

Mowing frequency and cutting height are important to the TLC regimen and must be adjusted to the time of the year and growth rate of the grass. Remove no more than 30 to 40 percent of the leaf area in any one cutting.

For more information on lawn care in coastal areas, the piedmont or the mountains, contact your local Cooperative Extension Center and request *Carolina Lawns* or visit the web at www.ces.ncsu.edu/TurfFiles/>. *Fred Miller*

Why doesn't my grass have any roots?

This sounds like white grub damage.

Grub damage shows up as large brown patches in the lawn. A closer inspection shows the grass has no roots. You can sweep handfuls of grass aside, revealing a powdery soil churned up by white grubs. White grubs are the larva stage of several beetles including the infamous Japanese beetle. A large beetle with shiny green wings produces the biggest grubs. These June bug eggs develop into translucent, C-shaped grubs that eat or destroy the grass roots. The adults show up in July. Instead of waiting for the adults in the summer, count the grubs in early September. If you find more than five grubs in one square foot of lawn, it's time to take action. Use Turcam, Sevin, Diazinon, Mach 2, Merit, Grub Ex, Proxol or Dylox or another lawn-care product labeled for white grubs. Apply by October 15 before the grubs get so deep that the pesticide won't work. You can kill grubs in the spring but that's mostly revenge. It's unnecessary if they died in the fall. *David Goforth*

ENVIRO-



Bee-Friendly Gardening

Bees land among that category of beneficial insects. Though they may evoke fear among some people, they provide a valuable service by pollinating food crops and flowering plants. Because the bee population has been reduced due to harmful mites, protecting our helpful bees is a priority. Many of the pesticides we use in the lawn and garden can harm bees that are foraging for pollen and nectar. Here's how to protect them: Select pesticides such as horticultural oils, insecticidal soaps and Bacillus thuringiensis (Bt) products that are less harmful to bees. Your county Cooperative Extension Center can advise you on this.

Read the instructions for any spray

product to see if there are special

precautions with respect to bees.

• Apply pesticides after 3 p.m., by which time most bees have returned to their hives.

Prevent drift by spraying during calm wind conditions.

• If there are beekeepers nearby, be sure to advise them before applying pesticides so that they may protect their hives if necessary.

It's also important to protect yourself and your family from bee stings. Contact your Cooperative Extension Center in your county for advice on how to avoid stings and control bee problems. Ask for the brochure "Reducing the Likelihood of Stings During Outdoor Activities" or access http://www.ces.ncsu.edu/depts/ ent/notes/BeeKeeping/bee15.html>. John MacNair

Extend Your Roots Along the Information Highway

Trying to find out what those bugs are on your prized camellia? Want to know how to prune your crape myrtles? Many answers to tree and shrub questions are right at your fingertips. The N.C. Cooperative Extension website has color photos of insect problems and guidelines on how to deal with them. Travel through our Urban Tree Identification guide and you'll find color photos of leaves, flowers, fruit and bark along with cultural requirements. In the Horticultural Leaflets section you'll find information on trees, shrubs, vegetables, flowers and fruit. Visit us at www.ces.ncsu.edu>. Click on Educational Resources, then

Horticulture. For additional information on tree and shrub diagnostic problems, visit the Cabarrus and



Mecklenburg county pages. If you're interested in tree seedlings, try the NC Forest Service at www.dfr.state. nc.us/>. John MacNair

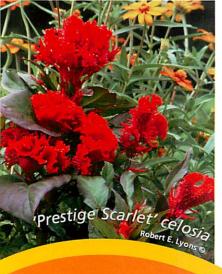
Successful Gardener Recognized Nationally

We are pleased to announce that *Extension's Successful Gardener* will be recognized as the est Team Newsletter by the National Association of County Agricultural Agents at the national meeting this month. In addition, the newsletter recently received the Award of Excellence from the Southern Extension Forest Resource Specialists.

These awards follow the Silver Quill Award, which was presented earlier this year by the International Association of Business Communicators (IABC) as the Best Newsletter in the Southeast!

Cgarden**talk**

"Unless you take care, the sun will pin you down. Put a hat on that foolish head of yours when you go out into the fields." – Farmer's Almanac



The North Carolina

Arboretum in Asheville is a 426-acre site nestled within the Bent Creek Experimental Forest and surrounded by the Pisgah National Forest. Established in 1986 as a research and conservation facility, the garden includes collections such as the Quilt Garden, Stream Garden and Heritage Garden which reflects Southern Appalachian culture. The Plants of Promise Garden features award-winning landscape plants, new introductions and superior plants derived from our native flora. The National Native Azalea Repository has some of the most striking floral images when the flame azaleas are in bloom. In addition, a state-of-the-art greenhouse complex is home to one of only two public bonsai displays in the Southeast.

Located at 100 Frederick Law Olmsted Way in Asheville, the garden is open Mondays through Saturdays from 8 a.m. to 5 p.m. and on Sundays from 12 noon to 5 p.m. Call (828) 665-2492 or access www.ncarboretum.org>.

Gardening in August

Lawns

- Treat lawn for grubs.
- Fertilize bermuda with 1 pound of nitrogen per 1,000 square feet; fertilize zoysia with 1/2 pound nitrogen per 1,000 square feet. Fertilize St. Augustine with 1/2 pound nitrogen per 1,000 square feet for the last time this month.

Allow fescue to go dormant during the hottest phase of the growing season. At this time, don't try to push it with fertilizer and water.

In late August, prepare the lawn area for seeding if you plan to have a tall fescue lawn.

Ornamentals

- Check conifers such as juniper and arborvitae for spider mites, and treat with Orthene, Ultrafine Sunspray
 - (a horticultural oil) or with an insecticidal soap.
 - Trim red-tip photinia in early August for red foliage through the winter.
 - Lightly prune most landscape plants except those that you expect to have blooms from next spring such as azaleas.
 - Annuals and biennials that have recently been deadheaded will benefit from fertilizing with a liquid 20/20/20 fertilizer.

• Get ready! Fall is the best time to plant trees and shrubs in the landscape. Analyze your site to see how you can enhance your landscape.

Edibles

• Strawberries will benefit from a feeding of nitrogen.

• Treat leaf spot on tomatoes with a fungicidal spray. Follow label directions.

Plant these fall vegetables: beets, Chinese cabbage, cucumbers, kale, spinach, squash, radishes, rutabagas and turnips.
Spray peach and plum tree trunks this month for control of peach tree borer.

David Barkley



Tune in to "Making It Grow!" – a gardening show featuring Extension agents from the Carolinas. Saturdays, 1 p.m. WTVI 42, Charlotte

Successful Gardener is provided to you compliments of:



Extension's *Successful Gardener* provides timely, research-based horticultural information. The newsletter is part of a statewide horticulture program which includes Extension's Regional Successful Gardener Seminar Series and county workshops. We publish 10 issues per year. Comments concerning Successful Gardener may be sent to:

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All Agents of N.C. Cooperative Extension

Ask for Extension's Successful Gardener at one of your local garden centers each month!

For a list of garden centers where you can find Successful Gardener, please call (704)336-2561 or visit Cooperative Extension on the web at http://www.ces.ncsu.edu

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