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Washington County Cooperative Extension Service

The Hoe Truth Newsletter

Helping You Grow

HORTICULTURE



April 2024

Inside this issue:

| | |
|----------------------------|---|
| <i>4H Garden Tour</i> | 2 |
| <i>Fire Blight</i> | 3 |
| <i>Fire Blight</i> | 4 |
| <i>Pumpkin Contest</i> | 4 |
| <i>To Do's</i> | 5 |
| <i>Seed Starting</i> | 6 |
| <i>Seed Starting</i> | 7 |
| <i>Recipe of The Month</i> | 8 |



WE'RE HIRING!

2 STAFF ASSISTANTS

APPLY BY APRIL 16TH

SPECIFIC DUTIES

- Office receptionist
- Word processing
- Quickbooks
- Filing
- Maintaining databases & mailing lists
- Developing and maintaining websites
- Designing newsletters
- Providing support for county agents

Visit this website for more details and to apply:

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LEXINGTON, KY 40546



Disabilities accommodated with prior notification.



4-H GARDEN TOURS

JUNE 3-5TH
9 AM- 3 PM
EACH DAY

Visit gardens and research centers from Lexington to Louisville to right here at home! This is a 3 day outing for youth ages 9-18.

Registration is \$15 and is limited to 10 participants. Registration includes:

- Lunch each day
- Event T-shirt
- Transportation & admission costs

Register by calling the Washington County Extension Office (859) 336-7741

Fire Blight

By Nicole Gauthier and Cheryl A. Kaiser

Fire blight is a highly destructive disease of apple and pear that can occur in commercial orchards and home plantings. Many landscape trees and shrubs in the rose family are also susceptible to this disease. Fire blight can cause severe damage in a very short period of time. Because precise conditions are needed for infection, disease appearance is erratic from year to year.

The earliest disease symptoms are observed on infected spurs when the bases of individual flowers or pedicels (flower stems) wilt and darken. As blooms collapse, infection spreads rapidly into other flowers in the cluster, causing the entire spur to wilt suddenly and die. Diseased tissues usually remain attached to the tree.

Infections frequently spread from blossoms to supporting spurs and branches, resulting in stem lesions or cankers. Fire blight cankers appear shrunken with a dark brown to purple color. As cankers increase in size, they can girdle stems or branches; as a result, tissues above these infection sites die.



Fire Blight Canker

Photo By Nicole Gauthier

Bacterial cells can build up during the blossom and spur blight phases of fire blight and infect rapidly-growing shoots. Blighted shoots wilt from the tip and develop a crook or bend at the growing point, commonly referred to as a 'shepherd's crook.' This phase occurs after bloom.

Trunk and rootstock infections can occur from the internal movement of the fire blight bacterium through water conducting-tissue or from infected water sprouts.

The fire blight organism, *Erwinia amylovora*, survives from one year to the next at the margins of previously formed branch and trunk cankers. In most years, fire blight begins during the bloom period and, as long as the environment is favorable, it will continue through petal fall and/or until shoot elongation stops.

Fire blight is generally favored by:

High relative humidity or rainy conditions.

Temperatures between 65°F and 70°F.

Under favorable conditions, bacterial populations can build-up rapidly. At 70°F, numbers of bacterial cells double every 20 minutes; one cell can become one billion cells overnight, each capable of causing a new infection. The key to fire blight management is preventing the infection of flowers. Once flowers become infected, they serve as a source of inoculum for the rest of the tree. Management of fire blight requires an integrated approach that relies primarily on cultural practices and is supported by the judicious use of bactericides.

While few cultivars of apple, pear, and the various ornamental host species are immune to fire blight, some

Fire Blight

cultivars are more resistant or tolerant than others. Whenever possible, plant resistant cultivars and resistant cultivar/rootstock combinations. For information on fire blight tolerant apple and pear cultivars, consult the Midwest Tree Fruit Pest Management Handbook, ID-93.

Implementing the following cultural practices is important in managing this disease:

- Avoid any cultural practice which stimulates rapid tree growth; young succulent tissue is susceptible to infection.
- Fertilization, especially nitrogen application, should be adequate for tree health without promoting rapid growth and prolonged succulence.
- Prune trees to improve air circulation and to promote rapid drying of foliage. Aggressive pruning will stimulate growth, so selective pruning is recommended.

Pruning can play an important role in a comprehensive fire blight management program, and when done properly, should reduce inoculum and tree damage. However, while removal of sources of the pathogen is desirable, pruning when the disease is active can further spread the pathogen. Thus, pruning out fire blight strikes during the growing season is a controversial issue. Currently UK recommends that pruning blighted twigs and cankered branches be delayed until winter.

Timely chemical sprays may be used as preventative measures to control fire blight during the spring when the pathogen is at the surface of cankers and on flowers. After the bacterium has invaded tissues, bactericides are not effective. Fungicides will not control fire blight. Refer to the Midwest Tree Fruit Spray Guide (ID-92) for application rates and other details.

Pumpkin Growing Contest

This summer a new contest is coming to Washington County! We will be challenging our youth and adults to put their gardening skills to the test with a Pumpkin Growing Contest. Information and seeds will be distributed at a Pumpkin growing class before the contest begins. Save the date for June 18th and wait for more information to follow!



April To Do's

If you haven't cut your perennials back, do it before the new growth starts.



Pinch off the spent flowers from spring bulbs before they make seed heads. This will cause more food storage in the bulb and increase flower size and productivity for next year.

Don't cut spring flowering bulb foliage back until it turns completely yellow or brown.

Plant trees and shrubs now, spring rains will help them to get established before hot dry weather sets in.

Save money on fertilizer by adding organic matter to your flower and vegetable gardens.

You can plant tender bulbs such as canna, calla, and dahlia later in the month. Apply slow release fertilizer at planting.

If you haven't planted your spring vegetable garden due to the wet weather you still have time. You can plant potatoes, onions, cole crops, lettuce, peas, carrots, beets, etc. now.

If you started seedlings indoors gradually acclimate them to the outdoors. They will sun and wind burn easily. Give them 30 minutes to an hour the first day outdoors and gradually increase it in 30 minute to an hour increments for a week or so until they have toughened up.

Uncover your roses! Keep the mulch handy in case we have an extreme late cold snap like last year. Prune out any dead, damaged or diseased tissue.

Spray your lawn for broadleaf weeds. For more information stop by the Extension Office and pick up the publication AGR-78.

Don't apply nitrogen fertilizer to your lawn in the spring.

Sharpen mower blades and change the oil in your mower before making your first cut of the season.

After flowering spray fruit trees with an all purpose fruit tree spray. Never spray while in flower you will kill the bees that you desperately need for pollination.

Apply a fresh layer of mulch to your landscape beds.

Plant your mail order or bare root plants as soon as possible.

If you haven't cut your blackberry canes that fruited last year back do it now before the new growth begins.

Depending on the Raspberries you are growing you should cut back the canes that fruited last year. If you are growing the varieties that fruit on new and old wood cut them back to the ground if you didn't do it last fall. These will grow all summer and give you a large crop in late summer and fall.



10 Keys To Starting Seeds At Home

Keep in mind not to put these in direct sun and don't make it air tight. With a cover the sun can heat up the flat too much and if the wrap is sealed down it can lock in too much moisture. Just leave the corner unsealed or if you are using a humidity dome turn it to one side or the other to allow some air exchange.

(6.) Keep seed warm to encourage germination. The top of the refrigerator is a good place but remember the plants will stretch quickly upon germination, so just as soon as you see one starting to come up move the flat to light. Another way to

warm the flat is to place it on a heating mat for germinating. There are several to choose from but the cheapest ones are for one flat and keeps the temperature of the flat around 70 degrees which is adequate for most seeds. Remember if you are going to place your flats somewhere to keep them warmer than the actual temperature they will dry out faster than they would otherwise.



(7.) The most important aspect of starting seeds indoors is light. Most people get disgusted with

starting seeds indoors because their plants stretch from lack of adequate lighting. Once your plants germinate they are going to need the sunniest window you can provide and that may not be enough. You can provide additional light by hanging a fluorescent light or grow tube over them to increase wave length. Using grow lights is another way to grow plants if you don't have adequate window space or exposure. The lights should be hung as close to the plants as possible without touching them. Usually 14-16 hours a day is adequate but it won't hurt if you leave them on all the time. Plants don't need to sleep.

(8.) Another problem many people have is spindly or weak plants. While this usually is from lack of light there are a few things you can do to strength the plants. If you are growing in a window turn the plants a quarter turn each day to keep them upright. Rub your hands across the tops of the plants a couple of times per week. This will simulate wind and cause the stems to become more rigid and less likely to stretch as much. You should do this even if you are growing under grow lights.

(9.) Feed your plants. Proper nutrition is the key to developing good transplants. Most seed starting mixes contain a small amount of fertilize to get the plants started but its not enough to really get them growing well. Once the first set of true leaves emerges its time to give them half strength water soluble fertilize on a once or twice weekly basis.

(10.) How many of you started plants indoors only to watch them cook as soon as they went outdoors. Remember, if not acclimated plants will sunburn just like people. To harden off your plants place them in direct sun for a couple of hours one morning and gradually increase their exposure form 1-2 hours to 2-4 hours and so on. After about a week your plants will be hardened off and ready for the garden.

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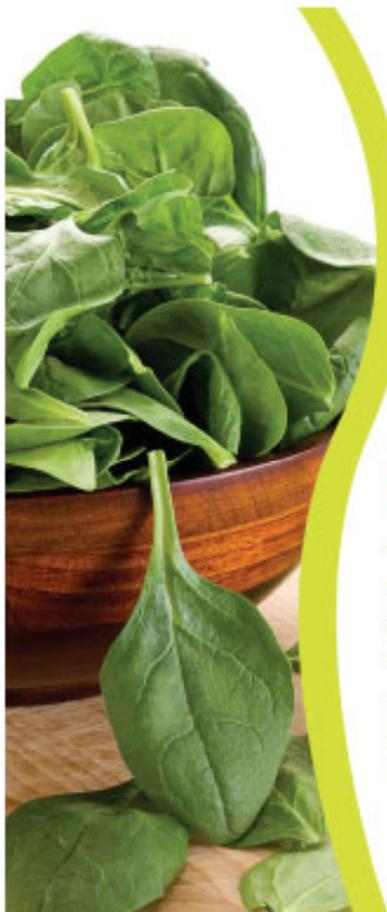
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Dennis Morgeson

Recipe of The Month



Spinach Slaw

| | |
|---------------------------------------|--------------------------------------|
| 2 cups chopped iceberg lettuce | ¼ cup hummus, original flavor |
| 2 cups chopped red cabbage | 2 tablespoon local honey |
| 2 cups chopped green cabbage | ½ teaspoon garlic powder |
| 1½ cups fresh spinach | ⅛ teaspoon salt |
| ¼ cup canola mayonnaise | ⅛ teaspoon pepper |

1. Wash, quarter, and core lettuce, red cabbage and green cabbage.

2. Thinly slice lettuce and cabbage quarters; chop slices into small pieces.

3. Wash and tear spinach leaves into small pieces.

4. Whisk together mayonnaise, hummus, honey, garlic powder, salt and pepper until ingredients are mixed well. **Toss** dressing with vegetables until coated thoroughly. **Refrigerate** for 30 minutes before serving.

Yield: 8, 1 cup servings.

Nutritional Analysis:
70 calories, 3.5 g fat, 0 mg cholesterol, 135 mg sodium, 11 g carbohydrate, 2 g fiber, 6 g sugar, 2 g protein.

Buying Kentucky Proud is easy. Look for the label at your grocery store, farmers' market, or roadside stand.

