

# AG News Today

AGRICULTURE & NATURAL RESOURCES

 **Martin-Gatton**  
College of Agriculture,  
Food and Environment

## July 2024/Summer 2024

Hello Livingston County! Join us as we celebrate the bounty of summer and uncover the stories shaping our agricultural landscape. In this issue we will be exploring Orange Rust, Ugly Corn, and the upcoming 2024 Livingston County Fair!

  
Livingston County CEA for ANR



Cooperative Extension Service

Livingston County

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- Now accepting applications for the Livingston County Agriculture Investment Program. To pick up a packet visit the Livingston County Cooperative Extension Office. 803 US 60 East Smithland, KY 42081 Mon-Fri 8:00am-4:30pm.
- Livingston County Fair Week  
Saturday July 6th 2024 through  
Saturday July 13th 2024
- Agriculture Open Exhibit Information  
Entry Check In: Tuesday July 9th 2024  
9:00am-2:00pm  
Entry Pick Up: Friday July 12th 2024  
10:00am-2:00pm
- Entry Information and guidelines for fair entry's are attached in this newsletter.
- Now accepting Soil Samples reminder: the first 25 are FREE! per Livingston County Producer

### Cooperative Extension Service

Agriculture and Natural Resources  
Family and Consumer Sciences  
4-H Youth Development  
Community and Economic Development

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University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.  
Lexington, KY 40506



Disabilities  
accommodated  
with prior notification.

# Orange Rust: Non-Curable Disease in Brambles

Orange rust of brambles can be a concern for Kentucky blackberry and raspberry growers. The first symptoms are often noticed in early spring when newly formed shoots appear weak and spindly. Once plants become infected, the pathogen spreads throughout the entire plant. While orange rust is unlikely to kill brambles, it significantly reduces vigor and results in lower yields. Infected plants should be removed to reduce disease spread.



**Figure 1: Orange pustules develop on the undersides of leaves. (Photo: Sandra Jensen, Cornell University, Bugwood.org)**

## **Orange Rust of Brambles Facts**

- New shoots emerge with poor growth in early spring. Leaves may yellow and distort. Orange pustules develop on the undersides of leaves, eventually covering surfaces (Figure 1). Infected leaves often drop readily. Shoot tips and buds may also be infected.
- Over time, infected plants exhibit poor growth, vigor, and fruit production.
- Once plants become infected the disease spreads throughout the plant, and all plant parts become infected.
- Thorny and thornless blackberries, as well as black and purple raspberries, are susceptible. Red raspberries are not known to be infected.
- Disease favors cool, moist periods. Infection may occur throughout the growing season, as long as conditions are conducive.
- Caused by the fungi *Gymnoconia nitens* and *Arthuriomyces peckianus*.
- The pathogens survive winter in infected plant tissues like canes and roots.



## Management Options

- Remove and destroy all nearby wild blackberries or black raspberries.
- Ensure that new plants are disease-free.
- Dig out infected plants (including roots) and burn or move off-site, as soon as disease is confirmed.
- Fungicides are not recommended as they do not adequately control orange rust. No fungicides are labeled for orange rust on brambles, although some fungicides can help protect healthy plants from infection.

# FARMERS RECIPE OF THE MONTH JULY 2024

## Red Potato Salad

**6 medium** red potatoes cut into 1½ inch pieces  
**4 cups** fresh green beans cut into 1½ inch pieces  
**1** small red onion, chopped

**1** red bell pepper, chopped  
**1** yellow bell pepper, chopped  
**1 cup** chopped cherry tomatoes

**¼ cup** mayonnaise  
**2 tablespoons** red wine vinegar  
**2 teaspoons** fresh oregano  
Salt and pepper

- 1. Wash** vegetables in warm water.
- 2. Boil** potatoes until tender and drain.
- 3. Boil** green beans until tender crisp and drain.
- 4. Place** the potatoes and green beans in a bowl.
- 5. Add** chopped red onions, peppers and tomatoes.
- 6. In** a small bowl, **mix** mayonnaise, red wine vinegar and chopped

oregano.

**7. Add** to potato mixture and mix lightly.

**8. Season** with salt and pepper. **Mix** well. **Serve** cold. **Yield:** 16, ½ cup

servings **Nutritional**

### Analysis:

140 calories, 1.5 g fat, 0 g saturated fat, 0 mg cholesterol, 35 mg sodium, 26 g carbohydrate, 6 g fiber, 3 g sugar, 5 g protein.





# LIVINGSTON COUNTY AGRICULTURE INVESTMENT PROGRAM (CAIP)

## MONEY FOR FARM IMPROVEMENTS



KENTUCKY AGRICULTURAL  
DEVELOPMENT FUND

### Eligible Investment Areas:

- Agricultural Diversification
- AgTech & Leadership Development
- Large Animal - Small Animal
- Farm Infrastructure
- Fencing & On-Farm Water
- Forage & Grain Improvement
- Innovative Ag. Systems
- On-Farm Energy
- Poultry & Other Fowl
- Value Added & Marketing

### Administered by:

**Crittenden County Conservation  
District**  
118 E. Bellville St.  
Marion, KY 42064  
(270) 965-3921

## COUNTY AGRICULTURAL INVESTMENT PROGRAM (CAIP)

Applications for cost reimbursements are available for Livingston County's CAIP, to assist farmers in making important farm investments.

### Application Period:

**beginning September 1, 2023**

***Applications will be accepted first-come,  
first-serve until funds are used.***

### Application Available from:

**Crittenden County Conservation District**  
118 E. Bellville St., Marion **-OR-**  
**Livingston County Cooperative Extension Svc.**  
803 US 60 E, Smithland  
Monday – Friday (8:30 a.m. – 4:00 p.m.)

### For More Information:

Contact 270-965-3921 or 270-928-2168 or email  
[Cynthia.Jenkins1@usda.gov](mailto:Cynthia.Jenkins1@usda.gov)

*All applications are scored, based on the scoring criteria set by the  
Kentucky Agricultural Development Board.*

## Cooperative Extension Service

Agriculture and Natural Resources  
Family and Consumer Sciences  
4-H Youth Development  
Community and Economic Development

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University of Kentucky, Kentucky State University, U.S. Department of Agriculture, and Kentucky Counties, Cooperating.  
Lexington, KY 40506



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# Ugly Corn About to Turn the Corner

Chad Lee, University of Kentucky

The 2024 corn season has created some ugly cornfields around the state. Those fields are about to turn the corner if they have not already. Excessive water, cool temperatures, windy conditions, active slugs and bugs, sidewall compaction, weeds and more created many challenges for the corn planted, especially corn planted earlier. Most of the corn is somewhere between emergence and about waist high which can be anywhere from the V8 growth stage (which has eight fully emerged leaves) to about V12. At this time of this writing, about 20% of the corn acres are still in the bag. Perhaps another 10% or more needs planted again. Corn fields seem to be either excellent or very poor. For the very poor fields, either the plants are rather small (probably V4 or less) or the corn plants are all over the place. Some fields have corn that is nearly waist high, corn that is stunted and yellow and low areas where corn was completely killed from flooding.

Saturated soils can cause corn plants to look yellow. Most of that yellowing is from root death and the inability of the plant to take up nitrogen. Those plants need oxygen back into the rooting zone to allow for new growth of roots. Once new roots are developed, the plants will start taking up nutrients again. Plants in these fields may take one to two weeks before they start to look better. Saturated soils can cause nitrogen losses, mostly from denitrification, when anaerobic microbes convert the nitrogen into gaseous forms lost to the atmosphere. That nitrogen loss usually is not as high as you would think. Three days of saturation are needed before microbes will be active enough to denitrify. Even in fields that have not been saturated, several nutrient deficiency symptoms are evident this year. Sulfur deficiency is more prevalent this year. Historically, visual sulfur deficiency does not translate to yield differences. However, some recent studies in Kentucky have showed yield increases to fertilizer sulfur. No more than 30 pounds of sulfur per acre should be used and foliar applications of sulfur are not effective.

The earlier-planted corn had more problems with slugs, insects, and seedling diseases. Raul Villanueva wrote an article on slug management for the last Corn and Soybean Newsletter:

[https://graincrops.ca.uky.edu/sites/graincrops.ca.uky.edu/files/cornsoynewsletter2024vol06issue05\\_May\\_final\\_0.pdf](https://graincrops.ca.uky.edu/sites/graincrops.ca.uky.edu/files/cornsoynewsletter2024vol06issue05_May_final_0.pdf)

Kiersten Wise wrote an article about seedling diseases in the same newsletter. The weather forecast suggests that corn will grow out of this ugly phase in most fields. Once corn gets to about the V6 or V7 growth stages, the plants will actively take up nutrients and start to look healthier. The stress of the weather on the corn before the V5 growth stage likely will have little impact on yield if the plant population has been maintained. For those 20% of acres that needs planting, farmers should stay with their selected hybrids and populations for most fields if the corn is planted before June 15. At this point, there is only one chance to get it right and farmers will not be able to replant. As much as possible avoid planting into wet conditions that create sidewall compaction. If done correctly, there is still an opportunity for respectable yields. The corn planted in June will grow very quickly. For example, from June 7, 2024, the weather forecasts that corn will emerge in 5 days in Daviess, Hardin and Boyle counties. The longer term forecast historically suggests that corn will speed through the growth stages thereafter. If there has been 3 or 4 weeks between burndown application and planting, expect to need to apply more herbicide. Consider soil residual herbicides, accounting for what was applied earlier and accounting for crop rotation restrictions.



**DONT FORGET TO LIKE AND FOLLOW LIVINGSTON COUNTY AGRICULTURE AND NATURAL RESOURCES PAGE ON FACEBOOK!**



**Livingston County**

**ANR**

University of Kentucky  
College of Agriculture,  
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# Livingston County Fair 2024

## Agriculture Open Exhibits

July

09

2024

Livingston County Fairbarn  
799 US 60 East  
Smithland, KY 42081

*Exhibit Check In:  
Tuesday July 09, 2024*

*9:00am - 2:00pm*

*Exhibit Pick-Up*

*Friday July 12, 2024*

*10:00am - 2:00pm*

## Entry Classes Include:

- Garden Display
- Flowers
- Flower Arrangements
- Single Stem
- Crops
- Hay

For Questions or more Information Contact Adam Barnes at  
the Livingston County Cooperative Extension Office / 270.928.2168  
Monday-Friday 8:00am-4:30pm / 803 US 60 East Smithland, KY 42081



# Livingston County Fair 2024

## Home & Garden Open Division

### Flowers

#### **RULES:**

- 1.) All flowers must be home grown.
- 2.) All arrangements must contain at least 50% living materials
- 3.) No potted plants

### FLOWER ARRANGEMENTS

600-00 : Gladioli

600-01 : Roses

600-02 : Marigolds

600-03 : Zinnias

600-04 : Daylilies

600-05 : Calla Lilies

600-06 : Cone Flowers

600-07 : Mixed Flowers

600-08 : Phlox

600-09 : Daises

600-10 : Hydrangeas

600-11 : Miscellaneous –

*(Only items that can not be  
entered into another category)*

600-12 : Most Unusual Arrangement

600-13 : Three(3) or Fewer Flowers

600-14 : Mini Arrangement under 3in

600-15 : Small Arrangement 4-5in

600-16 : Wildflower Arrangement

600-17 : Table Arrangement (Live)

600-18 : Bridal or Prom Arrangement

600-19 : Artificial Arrangement

600-20 : Dried Flower Arrangement

600-21 : Miscellaneous Arrangement

*(Only items that can not be entered into  
another category)*

**Premiums Offered  
for ALL Winners:**

**1st Place \$3.00**

**2nd Place \$2.00**

**3rd Place \$1.00**



# Livingston County Fair 2024

## Home & Garden Open Division

### Flowers

#### RULES:

- 1.) All flowers must be home grown.
- 2.) All arrangements must contain at least 50% living materials
- 3.) No potted plants

### SINGLE STEM

600-22 : Gladioli

600-23 : Roses

600-24 : Marigolds

600-25 : Zinnias

600-26 : Dahlias

600-27 : Daylilies

600-28 : Calla Lilies

600-29 : Other Lilies

600-30 : Sunflowers

600-31 : Daises

600-32 : Hydrangeas

600-33 : Coneflower

600-34 : Miscellaneous Single Stem

*(Only items that can not be entered into  
another category)*

#### Premiums Offered for ALL Winners:

1st Place \$3.00

2nd Place \$2.00

3rd Place \$1.00

# Livingston County Fair 2024

## Home & Garden Open Division

### GARDEN DISPLAY

#### **RULES:**

- 1.) All veggies & Fruit should be clean
- 2.) All veggies & Fruit must be homegrown by the exhibitor

### GARDEN DISPLAYS BY CLASSES

**700-00 : Apples (3)**

**700-01 : Grapes (Any Variety 3 Bunches)**

**700-02 : Peaches (Home Grown 3)**

**700-03 : Pears (3)**

**700-04 : Blackberries (Wild - 6)**

**700-05 : Blackberries (Tame - 6)**

**700-06 : Other Berries (6)**

**700-07 : Display of garden Products**

**700-08 : Potatoes - Red / White / or Sweet (3)**

**700-09 : Slicing Cucumbers (3)**

**700-10 : Pickling Cucumbers (3)**

**700-11 : Burpless Cucumbers (3)**

**700-12 : Onions - Red / White / or Yellow (3)**

**700-13 : Green Onions / Edible (3)**

**700-14 : Other Onions (3)**

**Premiums Offered  
for ALL Winners:**

**1st Place \$3.00**

**2nd Place \$2.00**

**3rd Place \$1.00**

- 700-15 : Red Tomatoes (3)**
- 700-16 : Miniature Tomatoes – Yellow / Cherry / or Pear (5)**
- 700-17 : Tomatoes Other (3)**
- 700-18 : Bell Peppers – all kinds (3)**
- 700-19 : Banana Peppers (3)**
- 700-20 : Jalapeno Peppers (3)**
- 700-21 : Beets (3)**
- 700-22 : Squash – Yellow (3)**
- 700-23 : Squash – Zucchini (3)**
- 700-24 : Carrots (3)**
- 700-25 : Cabbage (1)**
- 700-26 : Okra (12 Pods)**
- 700-27 : Sweet Corn – Any Variety (3 Years)**
- 700-28 : Bunch Beans (12)**
- 700-29 : Horticulture Beans (12)**
- 700-30 : Other Peas (12)**
- 700-31 : Eggplant (1)**
- 700-32 : Melons – Any Variety (1)**
- 700-33 : Sunflower (1)**
- 700-34 : Radishes (3)**
- 700-35 : Broccoli (3 spears)**
- 700-36 : Most Unusual Vegetable (Please Label)**
- 700-37 : Biggest Potato**
- 700-38 : Biggest Tomato**
- 700-39 : Biggest Onion**



**700-40 : Biggest Squash**

**700-41 : Biggest Head of Cabbage**

**700-42 : Biggest Cucumber**

**700-43 : Biggest Pepper**

**700-44 : Herb and/or Spices (1 Bunch)**

**700-45 : Display of 3 or more Herbs and or Spices**

**700-46 : Miscellaneous - (Only items that can not be entered into another category)**

# **Livingston County Fair 2024**

## **Crops & Hay Division**

**800-00 : Soybeans (3 Stalks)**

**800-01 : Corn (3 Stalks)**

**800-02 : Grain Sorghum (3 Stalks)**

**800-03 : Soybeans (1 quart jar from 2023)**

**800-04 : Corn (1 quart jar from 2023)**

**800-05 : Grain Sorghum (1 quart from 2023)**

**800-06 : Wheat (1 quart from 2023 crop)**

**800-07 : Alfalfa Hay (1/2 Square Bale)**

**800-08 : Clover Hay (1/2 Square Bale)**

**800-09 : Alfalfa Mix Hay (1/2 Square Bale)**

**800-10 : Grass Hay (1/2 Square Bale)**

**Premiums Offered  
for ALL Winners:  
1st Place \$3.00  
2nd Place \$2.00  
3rd Place \$1.00**