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OF RESPONSIBILITY

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4-H YOUTH DEVELOPMENT



2017 Kentucky State Fair

If it is August in KY, it is **KY State Fair Time** in KY! Perry County 4-H'ers have been actively preparing for this exciting time. By the end of July, anyone who wants to enter one of the hundreds of 4-H project options to the county project day for judging. The best in each category is chosen to represent the county at the State Fair.

Perry County's 4-H projects did well at the KY State Fair! **Nicole Fugate's** Cinnamon Twists were Class Champion, **McKinnleigh Amburgey's** embroidery called Swedish Weaving received a 1st place Blue, **Ava Dixon's** sewing project - the quilted bag with matching cosmetic bag received 1st



place Blue, **Skyler Turner's** horticulture photography received 1st place Blue. **Nicole Fugate's** sewing project of quilted book bag received 1st place Blue, **Kyra McAlarnis's** oatmeal muffins received 2nd place Red, **McKinnleigh's** rolled biscuits received 2nd place Red, **Joseph Amburgey's** Snickerdoodles received 2nd place Red, **Chloe Jent's** Chiffon Cake received 2nd place Red, **Lauryn Roberts's** Brownies received 2nd place Red, **Antoinette Contento's** carrot cake received 3rd place White, **Haley Patterson's** Chocolate Cake received 3rd place White and **Carley Watts's** Coffecake received 3rd place White! These kids are already making plans for their projects for next year!





Showing and Growing at the Kentucky State Fair

Morgan Dobson is a busy kid. She has a passion for livestock and loves to show both her goats and her rabbits...has for several years now. A family-focused project, here is a good time to outline just what values Showing Livestock teaches youth....

- #1 Be responsible.
- #2 Manage time.
- #3 Be confident.
- #4 Deal with different personalities.
(human and animal)
- #5 Be patient.
- #6 Develop a strong work ethic.
- #7 Challenge themselves and others.

(Source: "7 Lessons Learned From Showing Livestock" by Laurie Bedford)



Above: One of Morgan's Mini Rex and a display of the ribbons she won this week at the Fair on just her rabbits!

4-H Avian Team Competes at the Kentucky State Fair



Working with the team members in Avian Science doesn't mean that these youth will necessarily become poultry producers, but it does mean that these youth must work as a team and as individuals to learn the criteria for evaluating and grading, to use critical thinking skills to

determine the subject closest to the ideal, and to develop oral skills to communicate their observations of the subject. Both the contests of Poultry Judging and Avian Bowl challenge youth in these areas. The junior 4-H team in Poultry Judging received all 1st place Blue ribbons: **Joseph Amburgey, Haylee Pratt, Hannah Pratt, and McKinnleigh Amburgey**. Senior individual was **Robert Bowling** who received a 2nd place Red ribbon. Avian Bowl results gave Joseph and Hannah a Blue, Haylee and McKinnleigh a 3rd place White ribbon. Connor Hall served as a runner in the Avian competition.



UK Poultry Specialist, Anthony Pescatore with team.

Perry County 4-H Forestry Field Days

We are currently enrolling schools in the annual 4-H Forestry and Soil Field Day program. This four day marathon occurs each year in the Perry County Park at the Tree Walk and shelterhouses. The youth are trained by professionals of the Kentucky Division of Forestry, University of KY Agronomy Department, and Natural Resource Conservation Service as organized by the 4-H Program. The youth will learn to identify KY trees available, measure trees and determine board foot, estimate distances, determine direction, better understand soil composition....life skill development. The dates are September 5, 6, 7, 8.



New tree app builds partnerships between citizens and scientists

Lexington, Ky., (July 18, 2017) —

TreeSnap, new phone app developed by the University of Kentucky Forest Health Research Center and the University of Tennessee Department of Entomology and Plant Pathology for Android and iOS cell phones is designed to connect scientists with foresters, landowners and interested citizens in an effort to protect and restore the nation's trees.

A team led by Bert Abbott of the [UK Forest Health Research and Education](#)

[Center](#) and a [University of Tennessee](#) team led by Meg Staton developed the free app as a part of a \$3 million grant from the National Science Foundation Plant Genome Research Program. The partnership is part of a larger collaboration with Washington State University and the University of Connecticut.

One of the team's objectives in developing the app was to explore how they could engage the public with online resources scientists use for research, explained programmer and UT postdoctoral scholar Bradford Condon. **Every day, American forests fight for their health against invasive species and pests.** The app will provide scientists with more eyes in the field, giving them a greater reach to locate resilient trees that will advance their studies, whether they are working on breeding efforts or genomics to help in forest restoration.

“More than 80 percent of Kentucky's forests are privately owned, so if we have a way to involve those private landowners in some of these processes, it really opens up a lot of potential for researchers. The app gives those who are already in the forest, hiking or surveying their woods, a way to collect data that researchers can access,” said Ellen Crocker, a postdoctoral scholar of eastern forest health issues in the UK Department of Forestry and Natural Resources in the [College of Agriculture, Food and Environment](#). The app focuses on tree species that have been either negatively affected by an invasive insect or disease or are economically important, such as the **white oak**.

The developers have partnered with several research and tree breeding programs. The U.S. Department of Agriculture Forest Service Northern Research Station will use data on ash and elm to help them in their **fight against the emerald ash borer and Dutch elm disease**. The Forest Restoration Alliance and the Hemlock Restoration Initiative will use information on hemlock to find trees that are resistant to the **hemlock woolly adelgid**. The American Chestnut Foundation is gathering data on trees that are **resistant to chestnut blight**, in the hopes of adding them to breeding and research programs. UK’s Forest Health Research and Education Center will use records on white oak to build a breeding program in the event that the trees are **targeted by invasive pests in the future**.

Abdullah Almsaeed, a UT mobile development specialist, was tasked with making the app easy to use. The app guides the user to collect the necessary data: anything from habitat and crown classification, height and health to the quantity of seeds or cones and tree diameter. Users are encouraged to take pictures of the tree, and GPS on their phones will automatically log the location. **The developers recognized that not everyone will have cell coverage in the woods, so the app stores all of the information. When coverage is available, users can simply push a button and upload the data to the TreeSnap server.**

To protect the trees and the privacy of landowners, locations on the map, the app randomly alters and reports individuals within a five-mile radius. The app creators have two groups they are targeting. “If they’re interested in having this data for their research, they should contact us, and we can tailor the app to their needs,” Condon said.

“For the general public, if you’re interested in being engaged in this kind of citizen science, then by all means, download the app and start using it,” Crocker said. “I highly recommend engaging a local environmental group and organizing a sampling day.”

Crocker is partnering with the [Kentucky Master Woodlands Stewards Program](#), offered by UK forestry extension, to offer training. She also plans to offer workshops in the fall for those interested in learning more about the program.

“We’re really hoping that this app will let people, whether they’re foresters, landowners, or just avid hikers and nature lovers, engage with scientists in meaningful data collection,” Crocker said. TreeSnap is available in the Apple App Store and Google Play Store. More information is available online at <https://treesnap.org>.

Contact: Ellen Crocker, 859-257-3040; Bradford Condon, bcondon@utk.edu

UpComing Dates

Sept 5-6-7-8	County 4-H Forestry and Soil Field Days
Sept 8-9-10	State 4-H Teen Council at Lake Cumberland 4-H Center
Sept 23	District 2 4-H Teen Council meeting at London, register by 9/11
Oct tba	Perry County 4-H Talk Meet, HCTC, register by 9/22
Oct 4-15	Paper Clover Days at Tractor Supply Company, please be generous
Oct 12-13	Natural Resource 4-H Academy, by enrollment
Oct 28	Perry County 4-H Teen Council

Natural Resource 4-H Academy

Youth in the 7th grade are encouraged to apply for the newly re-organized Academy. This is a 3 year program geared toward those youth who are interested in pursuing a career in the environmental sciences field. The workshops will vary but focus on water education, forestry, wildlife, career exploration, skill development, and EKY resources. There is one overnight camping experience each of the three years. Applications can be obtained from this office and are due Oct 1st. There is limited enrollment.

Challenge to All Perry County 4-H Alumni!



Every dollar that is donated to the Perry County 4-H Program during the Run for the Hills Campaign is matched by the Perry County Community Foundation for the 4-H endowment! (upto \$5000). That campaign runs August to the end of October! **If you have ever participated in the 4-H program, ever had a child or grandchild participate in the 4-H program – please consider donating during this time!** Donations can be made to the Perry County Community Foundation for the Perry County 4-H Program at 420 Main Street, Hazard, KY 41701 (former Hazard Insurance Bldg.) Funds allow youth to receive partial scholarships during the year to attend conferences, workshops, judging team competitions, camps, and activities.

Here is the 4-H Recipe for Yeast Breads project at the KY State Fair!

Cinnamon Twists

Adapted for use in Kentucky from 4-H Cooking 301, p. 42 and 44, University of Illinois Extension. Used with permission.

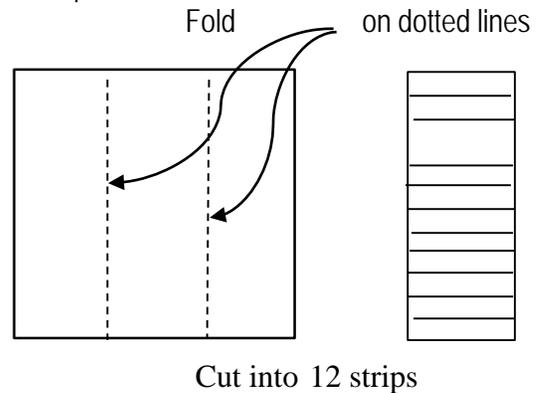
Yield: 12 rolls

Sweet Dough Ingredients

- ¼ cup sugar
- 1 teaspoon salt
- 1 package yeast
- ½ cup milk, heated to 100 to 110 degrees F
- ¼ cup water, heated to 100 to 110 degrees F
- 1/8 cup oil or melted butter
- 1 egg
- ½ teaspoon grated lemon rind, if desired
- 2 ½ cups all-purpose flour, approximately

Topping Ingredients

- 1/4 cup butter, melted
- 1/2 cup sugar
- 2 teaspoons cinnamon



1. Put sugar, salt, and yeast in mixing bowl. Mix well.
2. Place milk and water in microwave-safe bowl. Heat in microwave for 1 to 2 minutes. Remove from microwave and check temperature with food thermometer. Pour warm liquids over ingredients in mixing bowl and stir well. Allow mixture to stand 1 to 2 minutes.
3. Add oil or butter, eggs, and lemon rind to mixture. Beat until smooth.
4. Add 2 cups of flour to mixture and beat until smooth.
5. Add enough flour to make dough that is soft, but stiff enough to handle.
6. Turn dough out onto a lightly floured surface and knead until dough is smooth, elastic, and does not stick to surface or hands, about 8 to 10 minutes.
7. Place dough in a mixing bowl lightly coated with nonstick cooking spray. Spray top of dough with nonstick cooking spray and cover with damp, clean dish towel. Let rise in a warm place until doubled in size, about 1 hour.
8. Punch dough down and let stand 10 minutes.
9. Lightly coat baking sheet with nonstick cooking spray.
10. Roll prepared dough into a square about 12" x 12."
11. Brush dough with melted butter. Mix sugar and cinnamon in a small mixing bowl. Sprinkle center third of dough with 3 tablespoons of sugar-cinnamon mixture. Fold one third of dough over center third. Sprinkle with 3 tablespoons of the sugar cinnamon mixture. Fold remaining third of dough over the two layers.
12. Cut roll into 1-inch strips. Hold each end of a strip and twist tightly in opposite directions. Firmly press ends together.
13. Place on prepared baking sheet about 2 inches apart. Brush top with melted butter and sprinkle with sugar-cinnamon mixture.
14. Cover. Let rise in warm place until doubled in size.
15. Bake at 350 degrees F about 25 minutes or until lightly browned.
16. Top with basic icing if desired.

Nutrition Facts per Roll: 180 calories, 7g fat, 240 mg sodium, 29 g carbohydrates, 1g fiber, 4 g protein, 26 mg calcium