Changes to the Update

This issue of the 4-H Update begins our new schedule of sending out the information every two months. Please be sure and read this Update as it contains information that is important as we begin the new 4-H program year (September 1 through August 31). The Kentucky 4-H Updates will be archived at the State 4-H Leader’s Blog (https://4-h.ca.uky.edu/4-H_Blog).

Branding

4-H/Youth Development OR 4-H Youth Development

In 2003, Kentucky transitioned from the use of “4-H/Youth Development” to “4-H Youth Development.” The slash was removed, signaling the recognition of 4-H as youth development. Be sure that everyone in your office who provides support for 4-H YD has removed the slash.

~Martha Welch, Extension Specialist for 4-H Youth Development
~Mark Mains, Assistant Director for 4-H Youth Development.

General Updates

Kentucky State Fair

The reduced ticket form for the 2018 Kentucky State Fair was emailing to all agent on June 9, 2018. Please note a few things have changed for the form and costs.

1. Counties may use a credit card to purchase tickets
2. Tickets do have an increased price of $2.50 each.
3. There is a processing fee of $7 for tickets purchased no matter if one ticket or 200 tickets.
4. Additionally, ticket sales are going through the ticketing office this year:
   a. Reduced tickets cannot be purchased after August 1.
   b. All tickets are traceable with the ticketing office, and accounted for.

County passwords were emailed out to the counties June 9 as well. All passwords sent to the county email address. The email comes from the Kentucky State Fair Entry Department. Therefore, find the person that receives the general county email and print and keep the email in a safe spot to register your online projects. If it is not in the regular folder look in the junk folder.

- The dog, poultry, and rabbit entry deadline is July 10 online entry.
- Additionally, if you have not viewed the online training module please go to the 4-H Agent Resource Page, log in, and view under the state fair. If you are a superintendent, please contact your assistants ASAP!

~Kim Adams-Leger, Extension Specialist for 4-H Youth Development

4-H Public Value Statements

Do not forget that Extension has many high quality 4-H Public Value Statements online at https://psd.ca.uky.edu/pvstatements. Please utilize these when marketing the 4-H program in your communities.
- 4-H Conducts International Exchange Program with Japanese Family-Oriented Youth Organization
- Boone County School District Incorporates Extension Programming into Individual Education Plans (IEP)
- 4-H Prepares Youth to Pursue Professional Careers
- Extension Engages Youth to Nature While Investigating Ecosystems and Monitoring Water Quality
- Kentucky 4-H Teen Conference Enhances Leadership Skills of High School Students
- 4-H Summit Bridges Learning and Leadership for Middle School Youth
- 4-H Poultry BBQ Program Expands Skills and Creates Leadership Opportunities
- 4-H Youth Apply Life Skills to Give Back to Community
- Extension Contributes to School Readiness
- Monroe County 4-H Teen Leaders Created a Safe Environment for Prom
- 4-H National Youth Science Day Reaches over 4,000 KY Youth in 2015
- 4-H Shooting Sports Programs Teach Safety, Discipline, and Leadership
- 4-H Style Engineers Develop Fundamental Skills to Create Wearable Technology

~ Mark Mains, Assistant Director for 4-H Youth Development.

4-H Archival, Anyone?
Cameron French, sophomore at UK and 4-Her from Wolfe County, has been working with the State 4-H Office this summer developing an archival process that will hopefully be continued in the future. We found out there are Kentucky 4-H historical materials already preserved at the UK Library on main campus. Our goal is to develop a consistent process for us to use in the KY 4-H Program that will also be compatible and accessible for both campus and county. Cameron has also been involved with 4-H Teen Conference and area 4-H Day Camps. He is housed in the Robinson Center for Appalachian Sustainability (RCARS) with Dr. Chuck Stamper. Cameron says this about his experience, “4-H played a critical role in shaping me as an individual, and it’s amazing to see how Kentucky 4-H has impacted so many youth! Though things have changed, the constant has been Making the Best Better throughout the Commonwealth.” (see picture attached)

~Chuck Stamper, Ed.D., Extension Special Projects Coordinator, 4-H Youth Development Department

PERSONNEL: 4-H Youth Development Agent Positions

Samantha Woerner, Robertson County: During an internship in Bracken County, Samantha realized that she wanted to share her passion for agriculture with farmers and youth as a Cooperative Extension Agent. And she is getting to do that in her home county! Samantha grew up showing livestock through 4-H. She earned a bachelor’s degree in Agri-business and Animal Science from Morehead State University. As a hobby, she raises market goats on her family’s farm. Samantha is a dual program agent with responsibilities in 4-H YD and Agriculture/Natural Resources. She joins Sue Hughes, FCS/4-H agent.

~Martha Welch, Extension Specialist for 4-H Youth Development
Professional Development

Monthly Skype Sessions
Join us for a one-hour Skype session each month. We will have information and idea sharing on opportunities in 4-H. We encourage two-way communication so think about questions you want to ask and ideas you want to share. A few days before the session, watch for an email announcement giving the link and topic for the next session. Participation is open to all agents but required for all first year agents. Recordings of past sessions are available in the Resource Guide under Program Management, “New Agent Resources.” Ideas for future topics are welcome.

- **July 16, 2018**, 9:30am ET/8:30am CT
- **August 20, 2018**, 9:30am ET/8:30am CT
- **September 17, 2018**, 9:30am ET/8:30am CT
- **October 15, 2018**, 9:30am ET/8:30am CT
- **November 19, 2018**, 9:30am ET/8:30am CT
- **December 17, 2018**, 9:30am ET/8:30am CT

~Martha Welch, Extension Specialist for 4-H Youth Development

Upcoming In-Services
Here is a quick list of sessions specifically planned for 4-H agents but refer to the catalog in KERS for additional sessions targeted to all Extension agents. (4-H agents are not limited to the sessions below.) If the deadline to sign-up has passed, call the contact. *Please refrain from simply showing up at a session for which you have not pre-registered.* Register through KERS.

- **Common Reading Experience**—“Sparks: How parents can help ignite hidden strengths of teenagers”: May 21 through Nov. 19, online
- **Low Ropes Challenge Course Facilitation Training**: September 7-8, West KY 4-H Camp
- **2018 Series of In-Services**: December 4-6, Hyatt Regency Downtown, Lexington, KY

~Martha Welch, Extension Specialist for 4-H Youth Development

Signing up for In-Services after the Deadline
If you want to sign up for an in-service after the registration deadline has passed, be sure to call the contact to make sure that you can still participate in the in-service before you register.

~Martha Welch, Extension Specialist for 4-H Youth Development

Storage & Filing of Membership Information: Permanent Storage of ES-237 Report Added
County filing guidelines do not specifically mention storage/filing of the county ES-237 report. Information on storage of the ES-237 has been added to the Resource Guide under “Program Management.” The final copy of the annual ES-237 is to be maintained permanently as a digital or printed file in the same location where the permanent 4-H enrollment forms are stored. Your office is to maintain a digital or printed copy of the ES-237 going back to at least the 1970’s or earlier. (Note: The Expansion Review Committee Report which was sent in with the ES-237 was considered part of the ES-237 for many years.)

~Martha Welch, Extension Specialist for 4-H Youth Development
Time to Report Youth who Cross-County Lines
Near the end of the program year, agents are asked to report youth who have transferred membership to a county other than the county where they live or go to school. Go to the Resource Guide. Click on “program management,” then “Cross County Lines.” Look under “Agent Responsibilities for specifics about the reporting process. Forms are due July 1.
~Martha Welch, Extension Specialist for 4-H Youth Development

4-H/Youth Development OR 4-H Youth Development
In 2003, Kentucky transitioned from the use of “4-H/Youth Development” to “4-H Youth Development.” The slash was removed, signaling the recognition of 4-H AS youth development. Be sure that everyone in your office who provides support for 4-H YD has removed the slash.
~Martha Welch, Extension Specialist for 4-H Youth Development

Journal Article of the Month

Adding A Youth Flavor to Extension Articles
Adding a ‘Youth Flavor’ to Extension’s Programs”, published in June, 2018, in the Journal of Extension, provides a timely, and interesting perspective on program planning and execution, in addition to contributing to positive youth development. As greater accountability is required from stakeholders, funders, CES, the college, and university, multi-disciplinary collaborations among county Extension professionals will facilitate a broader based outreach to multi-generational audiences. Please feel free to share this article with your colleagues in other program areas. The article may be accessed at: https://www.joe.org/joe/2018june/iw3.php
~Ken Culp, III, Principle Specialist for 4-H Youth Development, Volunteerism

Volunteer Development/Youth Development

2020 Kentucky Volunteer Forum
The next Kentucky Volunteer Forum is scheduled for February 13 – 15, 2020. You can celebrate Valentine’s Day at the Hyatt Regency Lexington!
~Ken Culp, III, Principle Specialist for 4-H Youth Development, Volunteerism

Volunteer Administration Academy
Agents are encouraged to enroll in VAA for the fall, 2018 and spring, 2019 semesters. You may earn either six hours of graduate credit (3 hours per semester) or 10 hours of in-service credit per class meeting. Contact Ken for additional information.
~Ken Culp, III, Principle Specialist for 4-H Youth Development, Volunteerism

National 4-H Volunteer Conference
I am excited to share news about the National 4-H Volunteer Conference. The Conference will be held 27 – 30, 2018, at Rock Eagle 4-H Center. Workshop are being offered in the following tracks: Connecting Camp to Learning, Connecting Kids to the Kitchen, Connecting Health to Better Living, Seeing Science Connections, Mastering Plant and Garden Connections, Connecting Creative Arts to Purpose, Teaching and Learning, and Computers & Technology. Registration is a bargain at $325, which includes all meals, lodging, conference and registration materials.
We hope to send a sizeable delegation of both volunteers and 4-H Youth Development Professionals to this historic, inaugural event. Please share this information and website with your volunteers and 4-H Youth Development professionals. Complete information is available online at https://vcoss.weebly.com/

~Ken Culp, III, Principle Specialist for 4-H Youth Development, Volunteerism

Agriculture/Natural Resources

4-H Poultry Showmanship

Just a quick note to remind you that there will be a 4-H Poultry Showmanship contest at the state fair – chickens only. See - http://www2.ca.uky.edu/smallflocks/4H_poultry/PoultryShowmanship.html

The contest will be held the first day of the state fair. You bring your chickens in that morning and can leave them there until Friday at 7 PM (after Avian Bowl and Poultry Judging contests). The website above has information on how they chickens will be judged, plus links to the national poultry showmanship manual and a recording of an eXtension webinar on poultry showmanship. Note though, while these two items include ‘walking’ the chicken, we will not be doing this in the contest. We will have the participants pose the chicken however.

For more information, contact Dr. Jacquie Jacob (jacquie.jacob@uky.edu).

~Jacquie Jacob, Poultry Specialist

4-H State Turkey/Chicken BBQ Contest

A quick reminder that the state 4-H chicken and turkey barbecue contests will be held at the Madison County Extension office on July 28. Check in starts at 12:30 PM at which time the participants can set up their work table. Fires can be lit at 1 PM. Participants have 2.5 hours to cook 3 chicken halves or 2 turkey breast fillets.

We provide the grills, table (each participant gets ½ of an 8-foot table), charcoal, lighter fluid and chicken or turkey. The participants are required to provide their workstation materials (cooking utensils, washbasins, paper towels, aprons, etc.).

See http://www2.ca.uky.edu/agcomm/pubs/4aj/4aj03po/4aj03po.PDF for more details and ideas on what equipment is needed. Counties can send as many juniors and seniors as they want – no pre-qualification is required. Pre-registration is required – with July 17 deadline.

To register, email me the following information:

- County
- Name
- Birth date
- Junior or Senior
- Chicken or Turkey barbecue contest

The top seniors in each contest will have the opportunity to represent Kentucky at the national contests in Louisville, KY November 14-15.

For more information, contact Dr. Jacquie Jacob (jacquie.jacob@uky.edu).

~Jacquie Jacob, Poultry Specialist
4-H Poultry T-Shirt Contest (State Fair)
As in previous years, a poultry T-shirt contest will be held in conjunction with the 2018 4-H Poultry Judging Contest and Avian Bowl Contest. The sponsor of the T-shirt contest is the Kentucky Poultry Federation and the winners will be chosen based on the following criteria:
1 – Clear lettering and images
2 – Poultry-related theme
3 – Only T-shirts with a sleeve are allowed, no other articles of clothing are eligible
4 – To enter the contest, email Jacquie Jacob (Jacquie.jacob@uky.edu) to indicate your plan to participate in the contest with subject heading, Poultry t-shirt contest.
5 – Final judging will be done at 3:00 pm on August 17 at Cloverbale
6 – The winner will be determined by the Kentucky Poultry Federation and all decisions are final
7 – The winning entry will receive a trophy and a $50 donation to their county 4-H club
8 – Any shirts with inappropriate images or statements will be eliminated from the competition. No discriminating statements concerning ethnicity, gender, sexual orientation or religion will be allowed. For more information, contact Dr. Jacquie Jacob (jacquie.jacob@uky.edu).
~Jacquie Jacob, Poultry Specialist

4-H State Egg Demonstration Contest
A quick reminder that the state 4-H egg preparation contest will be held at the Madison County Extension office on the morning of July 28. The contest involves the participants preparing an egg dish while discussing various egg facts including nutrition, functions and food safety. A full description of the contest and ideas of the types of posters required can be found at:
http://www2.ca.uky.edu/agcomm/pubs/4aj/4aj09po/4aj09po.PDF

Counties can send as many juniors and seniors as they want – no pre-qualification is required. Pre-registration is required – with July 17 deadline. To register, email me the following information:
- County
- Name
- Birth date
- Copy of recipe
- Indication of the amount of preparation time required

The top senior will have the opportunity to represent Kentucky at the national contest in Louisville, KY November 14-15. All the cooking is done on site. Start time will depend on the number of participants and the preparation time required but we expect a 9 AM check in time.

For more information, contact Dr. Jacquie Jacob (jacquie.jacob@uky.edu).
~Jacquie Jacob, Poultry Specialist
4-H Livestock and Horse Volunteer Certification Workshops for 2018
Two certification workshops are being offered this Fall/Winter.
Date: November 17, 2018
Location: Lake Cumberland State Park, Jamestown, KY
State Registration Deadline: October 19, 2018

Date: December 1, 2018
Location: General Butler State Park, Carrolton, KY
State Registration Deadline: November 2, 2018

Registration information is now available on the Agent Resource Guide, including the registration form, and fee and lodging information. CES offices must submit registration information online by the state registration deadline – the online registration website will be available in late September/early October. The link will be sent out at that time.

Agent Resource Guide: https://4-h.ca.uky.edu/rg/livestock-and-horse-volunteer-certification-program
~Ashley Osborne, Extension Specialist for 4-H Youth Development

4-H Dog Volunteer Certification Workshops for 2018
Two 4-H Dog Volunteer Certification Workshops are available for the 2018-19 Program Year. The 4-H Dog Volunteer Certification Workshop will be held in conjunction with the 4-H Livestock and Horse Volunteer Certification Workshops.

Date: November 17, 2018
Location: Lake Cumberland State Park, Jamestown, KY
State Registration Deadline: October 19, 2018

Date: December 1, 2018
Location: General Butler State Park, Carrolton, KY
State Registration Deadline: November 2, 2018

Registration information is now available on the Agent Resource Guide, including the registration form, and fee and lodging information. CES offices must submit registration information online by the state registration deadline – the online registration website will be available in late September/early October. The link will be sent out at that time.

Agent Resource Guide: https://4-h.ca.uky.edu/rg/dog-volunteer-certification-program
~Ashley Osborne, Extension Specialist for 4-H Youth Development

4-H Livestock, Horse, and Dog Certified Volunteers – Recertification Hours Due Soon!
Friendly reminder! Recertification hours for certified volunteer leaders for livestock, horse, and dog program must be completed by August 31. All signed and completed paperwork must be submitted to Steve Austin (livestock), Amy Lawyer (horse), or Ashley Osborne (dog) by September 15. Note if you had a volunteer attend one of the certification workshops offered in the last program year (September
1, 2017 – current), then they are current for the 2017-18 Program Year and do not need to complete recertification hours until next program year (September 2018 – August 2019).
~Ashley Osborne, Extension Specialist for 4-H Youth Development

4-H Bee Ambassador Program
Remember to submit your points by August 31 for any bee-, honey-, or pollinator-related programming completed this Program Year! The entry form to submit points is available online here. Counties that have a total of 25 or more points by August 31 will receive a sign to install at their county office stating they are 4-H Bee Ambassadors. Signs will be given at the 4-H Series Event in December.
~Ashley Osborne, Extension Specialist for 4-H Youth Development

4-H Forestry Field Days – Save the Date!
At 4-H Forestry Field Days, youth are taught and tested on the basics of tree identification, tree measurement, and the use of a compass and measuring distances by pacing. September 4 – Carter Caves State Resort Park, Olive Hill, KY September 10 – Woodlands Nature Center, Land Between the Lakes, KY September 11 – Mammoth Cave National Park, Mammoth Cave, KY
~Ashley Osborne, Extension Specialist for 4-H Youth Development

Meet Dr. Lou Hirsch, Plant Pathologist and Science Outreach Enthusiast!
Dr. Hirsch is the Director of Undergraduate Studies for the Agricultural and Medical Biotechnology (ABT) Program in CAFE and a lecturer in the departments of Plant Pathology and ABT. In addition to mentoring undergraduate students and instructing classes, Dr. Hirsch is also passionate about science outreach programs, specifically programs that introduce and peak a young person’s interest in plant science and plant pathology. Dr. Hirsch was recently featured in the 2018 Spring CAFE Magazine (click here for article, see pages 20-21). Dr. Hirsch is available to present sessions and lead activities at 4-H programs and events, such as environmental education camps. He does need reimbursement for travel (e.g., mileage). To inquire regarding his availability, contact Dr. Hirsch directly via email at robert.hirsch@uky.edu.
Magazine Article: https://issuu.com/ukcafe/docs/2018_spring_ukcafe_magazine
~Ashley Osborne, Extension Specialist for 4-H Youth Development

4-H Dog Show
Please note there are a few changes from previous years…
- 4-H dog entries should be made electronically by July 10th, the Animal Science deadline. No late registrations will be granted. (Agents please note that the description line of the entry should be the dog’s name and breed.)
- NEW! - A registration fee of $15 per exhibitor is required to help offset costs associated with the dog show. This fee is due fourteen days prior to the show. Checks can be made to the Kentucky 4-H Foundation and mailed to University of Kentucky c/o KY 4-H Dog Program, 212 Scovell Hall, Lexington, KY 40546.
- NEW! – To be eligible to participate in the State 4-H Dog Show or Dog Poster Contest, 4-H members must have participated in a county dog club/group and completed 6 hours of education between September 1st and the date of the State 4-H Dog Show.
Family & Consumer Sciences/Health

4-H Cupcake Wars
This is a friendly reminder that the deadline to register teams for the 2018 4-H Cupcake Wars at the Kentucky State Fair is August 3rd. The Cupcake Wars competition will be held on Sunday, August 19th in the South Wing at the Kentucky State Fair. We are accepting 2 teams representing each of the 7 districts for a total of 14 teams. Additional registered teams will be placed on a waitlist and will fill available spots (if any) after the deadline has passed.

Please email your registration forms to Meagan Klee (mbklee2@uky.edu) and feel free to contact her if you have any questions. Attached are the following documents: a) 2018 Tentative Schedule; b) Application; c) Rules & Guidelines; and d) Score Sheet.
~Meagan Klee, Casey County 4-H Youth Development Agent, 2018 Cupcake Wars Chair

NEP News
ALL Agents & Assistants: Meetings & Activities completed prior to July must be submitted in KERS before July 15th. KERS will be locked and the old FY will be inaccessible after July 15th. The SNAP-Ed commitment year is Oct 1 – Sept 30 and SNAP-Ed entries will be compiled, but your reporting in KERS must be caught up by July 15th for June and prior.
~Leslie McCammish, Senior Extension Associate for NEP Programs

Kentucky 4-H Culinary Challenge, Saturday, August 4
The 2018 Kentucky 4-H Culinary Challenge is set for Saturday, August 4, at the Boone Co. Extension Enrichment Center, 1955 Burlington Pike, Burlington, KY. Each district may send one team of 3 to 5 teens. Teens must be senior 4-H members (4-H age 14-18) and all from one county. The deadline to register the district team in the state contest is July 6, 2018. Information is available on the public site and in the Resource Guide under “Culinary Challenge.” Note: “4-H age” is the age of the member on Jan. 1, 2018. For youth born on Jan. 1, use age on Dec. 31, 2017.

Challenge Field Trip: Since some teams will arrive on Friday night, we have an optional educational session scheduled at Jungle Jim’s International Market (Eastgate location). The address is 4450 Eastgate South Drive, Cincinnati, OH 45245). Teams will need to arrive early and meet Martha Welch at the main entrance at 5:45pm. Our tour will start promptly at 6pm. There will not be a charge for the tour for team members, one team coach, and one agent for each team and agents serving on the planning committee. Family members and others are welcome to participate in the tour at $5 per person; be prepared to pay upon arrival. Others who want to participate in the tour need to be registered on the team registration form. Counties will need to provide transportation for teams.
Agents, be sure to complete the out-of-state paperwork and submit it to your district director and Dr. Mains.

The following agents are serving as contact agents (and also serve as the state planning committee) are: D1: Sherrill Bentley; D2: Kim Whitson and Alissa Ackerman; D3: Denise Donahue; D4: Lois Carter; D5: Elijah Wilson and Meagan Klee; D6: Catherine Webster and Wade Raymer; D7: Kendriana Price.

~Martha Welch, Extension Specialist for 4-H Youth Development

Leadership/Citizenship

Kentucky 4-H Achievement
Kentucky 4-H would like to congratulate the 2018 Emerald Award Winners!
Delaney Simpson – Boyle County
Camryn McManis – Oldham County
Logan Mattingly – Calloway County
Catherine Drysdale – Carlisle County

~Kim Adams-Leger, Extension Specialist for 4-H Youth Development

Kentucky 4-H Officers
Congratulations to our 2018-2019 Kentucky 4-H Officers: Jonna Woodson (President), Walter Steely (Vice President), Delaney Simpson (Secretary), Dylan Gentry (Treasurer). If you would like to request an officer please complete the online request form. https://uky.az1.qualtrics.com/jfe/form/SV_0kUXMo6xPn9QOUd

~Rachel Noble, Extension Specialist for 4-H Youth Development

4-H International Program
We are awarding $500.00 program support money per academic year exchange student placement. Individuals or families do not have to be enrolled in 4-H or have children living in the home. Please help us find two matches for the exchange students. https://4-h.ca.uky.edu/internationalexchange

~Rachel Noble, Extension Specialist for 4-H Youth Development

4-H Teen Conference
Thank you for helping make Teen Conference a success. Statistics and the success story will be sent out prior to July 15th deadline. Save the dates for next year! June 10-13, 2019!

~Rachel Noble, Extension Specialist for 4-H Youth Development

4-H Summit
Requests for Summit weekends will go out by the middle of July. Watch your email for more details.

~Rachel Noble, Extension Specialist for 4-H Youth Development

4-H Southern Region Teen Leadership Conference
Save the Dates: September 20-23! Information coming soon!

~Rachel Noble, Extension Specialist for 4-H Youth Development

Education Matters! Article on Educational Attainment in the United States
Even if your career path seems hazy, the data are clear: More education leads to better prospects for earnings and employment. According to data from the U.S. Bureau of Labor Statistics (BLS), earnings increase and unemployment decreases as educational attainment rises. Grouping workers by
education level, the chart shows that those with more education have higher earnings and lower rates of unemployment than those with less education.

For example, workers with a professional degree had the highest median weekly earnings ($1,730) and lowest unemployment rate (1.5 percent) in 2015 of all groups shown. That’s more than triple the earnings ($493) and less than one-fifth the unemployment rate (8.0 percent) of workers with less than a high school diploma.

Education alone doesn’t guarantee that you’ll find a job or make a lot of money, however. Earnings and employment vary by occupation, and they are further affected by industry, geographic location, experience, and other factors. BLS data and resources, such as the Occupational Outlook Handbook, can help you learn more about the occupations that interest you.

These data are from the BLS Current Population Survey, a monthly survey of households that collects information about demographic and labor force characteristics.

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**Earnings and unemployment rates by educational attainment, 2015**

<table>
<thead>
<tr>
<th>Educational Attainment</th>
<th>Median usual weekly earnings ($)</th>
<th>Unemployment rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral degree</td>
<td>1,623</td>
<td>1.7</td>
</tr>
<tr>
<td>Professional degree</td>
<td>1,730</td>
<td>1.5</td>
</tr>
<tr>
<td>Master's degree</td>
<td>1,341</td>
<td>2.4</td>
</tr>
<tr>
<td>Bachelor's degree</td>
<td>1,137</td>
<td>2.8</td>
</tr>
<tr>
<td>Associate's degree</td>
<td>798</td>
<td>3.8</td>
</tr>
<tr>
<td>Some college, no degree</td>
<td>738</td>
<td>5.0</td>
</tr>
<tr>
<td>High school diploma</td>
<td>678</td>
<td>5.4</td>
</tr>
<tr>
<td>Less than a high school diploma</td>
<td>493</td>
<td>8.0</td>
</tr>
</tbody>
</table>

All workers: $860

Note: Data are for persons age 25 and over. Earnings are for full-time wage and salary workers.


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~Chuck Stamper, Ed.D., Extension Special Projects Coordinator, 4-H Youth Development Department

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**Science, Engineering & Technology (SET)**

**2018 Kentucky 4-H Robotics Challenge**

The 2018 Kentucky 4-H Robotics Challenge will be held on Friday, August 24 in Cloverville at the Kentucky State Fair. The 4-H Robotics Challenge is designed to let 4-H Robotics teams showcase their talents, ingenuity, critical thinking and problem-solving skills. Teams will compete in three different events at the Challenge putting their STEM skills to the test with Junk Drawer Robotics, SumoBot wrestling and a programming component. The programming component “Adventures Under the Sea” was created and designed by Katharine Estep, Erin Johnson, Claire Mackey, Nicholas Wideman, Connor Wilkerson, and Alyssa Wozniak with the University of Kentucky Biosystems and Agricultural Engineering program as a class project under the guidance of Dr. Joe Dvorak, professor of Machine
Systems Automation Engineering. Here is a teaser video for “Adventure Under the Sea” - [https://youtu.be/7uva_C8Lni8](https://youtu.be/7uva_C8Lni8)

Up to 20 teams (consisting of up to five members) may compete in the three different events at the Challenge this year. Team registration is $50.00 per team and included Kentucky State Fair entry for up to five team members and one coach/chaperone as well as Kentucky 4-H Robotics Challenge t-shirts for the team. Full rules and guidelines for the 2018 Kentucky 4-H Robotics Challenge can be found on the Kentucky 4-H Science, Engineering and Technology web page under “Robotics” ([https://4-h.ca.uky.edu/content/robotics](https://4-h.ca.uky.edu/content/robotics)). Teams can be registered online through the Resource Guide via a link from the Robotics section listed above.

If you have any questions, please contact Torey Earle, Extension Specialist for 4-H Youth Development, SET Programs: tearle@uky.edu or (270) 534-3105.

~Torey Earle, Extension Specialist for 4-H Youth Development, SET Programs

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### 4-H Camp

**4-H Camp Improvement Committee – Important Changes!**

Currently, the Kentucky 4-H Camp Improvement Committees are operating under an outdated organizational structure. The system was adequate and appropriate under the model when there were not Camp Directors serving in a full-time professional capacity overseeing each camp facility. To better align camp improvement committees with the changes in the program’s organizational structure, two adjustments are being made effective at the start of the next 4-H program year (September 1, 2018).

1. Agents will no longer be asked to sign up as “contact agents” for camp improvement committees. Instead, the Camp Director will serve as the facilitator of his or her respective committee. The Camp Director will collaborate with agents to develop the agenda and lead the meetings. Additionally, the Camp Director will be the distributor of information (e.g., upcoming meeting dates, meeting minutes). Agents are still highly encouraged to attend camp improvement committee meetings. This change, however, will eliminate the time commitment some agents are putting in organizing meetings, making copies, and putting together agendas.

2. The Extension Specialist for 4-H Youth Development responsible for 4-H camping programs (Darrell Stillwell) will no longer have a direct responsibility to attend or be involved in these committee meetings. The Camp Director will be in charge of camp improvement committees (regional groups), and the Extension Specialist will be in charge of the camp advisory committee (state level group).

~Darrell Stillwell, Principal Specialist for 4-H Youth Development, Camping
Avoid these common mistakes when preparing show honey

Kentucky State Fair Honey Show Varia

Compiled by Tammy Horn Potter
Sept. 12, 2017

Most honey looks better in glass containers. These tips will help you to find appropriate jars for your honey, and also to show your honey to best advantage in the competition.

Air bubbles

Bottle the jars slowly and at an angle to avoid adding air. Allow the jars to settle for several days.

Crystals

All honey will crystallize given enough time. Even tupelo and sage honey will granulate, although it may take a few years. Since honeys are supersaturated sugar solutions, crystallization is inevitable.

Most judges of honey shows use a polariscope, which is simply two sheets of Polaroid film, one of which is turned at a 90-degree angle to the other. The honey jar is placed between these Polaroid sheets, and a light source is placed behind a Polaroid sheet. Crystals, wax, hair (human and bee), pollen, and lint show up clearly in this fashion.

When honey starts to crystallize, the process proceeds quickly. For this reason, honey with any crystallization signs may be disqualified or have points deducted. Judging crystallization is a bit like judging moisture content. There is a sharp cutoff point, and even a small amount of granulation is not permitted. For most judges, this is a hard-and-fast rule. Honey with no crystals receives full credit; entries showing crystals receive point deductions.

Fill line

The point of having a “fill line” or “fill ring” is twofold: to be fair to both the customer and the beekeeper. The fill line is a continuous ring molded into the glass around the lower jar mouth. You want to fill to the top of the ring, not over. The yellow arrow in the photo above illustrates the fill line or fill ring.

Jars

No doubt it can be difficult to find the proper glass jar for state fairs. Some people keep jars for decades because they have found glasses without imperfections. Keep in mind that comb honey and creamed honey need to have wide-mouth, 1-pound glass jars. For all categories, try to avoid using Mason or Ball jars that have “cast-in” decoration. This decoration detracts from your entry.

Lint

Use nylons, not cheesecloth. Cheesecloth will leave a great deal of cotton lint in the honey. Lint usually cannot be seen without the aid of a polariscope, a tool that the judge always uses. In dark honey, lint is impossible to see without a polariscope. Lint from cotton, diapers, cheesecloth, etc., will show up. After use, don’t wash the nylon with other clothes. It will pick up lint in the process and transfer that to the honey.

Moisture

As with crystallization, high moisture content can cause honey to ferment very quickly. Most customers do not open a jar of honey at the time of purchase to smell or taste it. Only when the customer arrives home will he or she detect these

Where to buy honey jars

- Betterbee: betterbee.com/containers/glass-containers.asp
- Brushy Mountain: brushymountainbeefarm.com/1-lb-Round-Comb-Glass-Jars-cs-12/productinfo/747/
- Dadant Bee Supply (Frankfort): dadant.com/catalog/containers
- Kelley Beekeeping (Clarkson): kelleybees.com/containers.html
- T.M. Klein and Sons: tmkleinandsons.com/honey-jars.html
problems. This is why moisture is such an important part of the judging.

Since honey shows are about marketing a good product for consumers, any honey with a moisture content of 18.7 percent or higher will be disqualified. Any honey with a moisture content of 18.1 to 18.6 percent will have points deducted. Any honey with a moisture content of 14 to 18 percent will receive a full 15 points. Any honey with a moisture content of 13.9 percent or lower will have points deducted. Any fermented, smoked, or fume-board chemically contaminated honey will be disqualified.

**Testing honey**

Test honey with honey refractometers. If moisture is too high, leave in a room with a dehumidifier through the night or several nights. Protect the honey during this process. Small hive beetles love to take advantage of honey that is not stored in a safe place.

A non-technical method to test honey for moisture is simply to turn the bottle of honey upside down. If a bubble rises quickly to the top, the honey probably has too much moisture. A bubble tends to rise more slowly in denser honey with appropriate moisture. This non-technical approach is fine for gifts but not appropriate for honey shows.