



4-H Youth & Community Development

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Front page: Victorious Robotic team member, Justin Caldwell

County Talk Meet Youth “Speak Up”



The First Federal Center at HCTC was invaded one cloudy day in October by an exuberant delegation of youthful speakers....in other words, the Perry County 4-H Talk Meet! Smartly dressed and ready to present, these 4-H’ers really gave the judges a difficult time when it came down to determining which youth would represent the county at the District Meet in December! With 112 youth registered, there were seven teams of experienced judges from the school systems, HCTC, and 4-H alumni. As an added bonus for the participants, organizer of the event, 4-H Leader Evelyn Wood also arranged for HCTC and GEAR Up Kentucky to provide activities for the youth while the judging was being completed!

Perry County will have the following 4-H’ers to compete in the District Meet :

From Dennis Wooton Elementary:

- Maddie Gross “Peace Symbols”
- Amanda Jameson “H1N1”
- Cody Gayheart “If I Were A Millionaire”
- Laken Walker “The Danger of Gossip”
- Leslie Ritchie “Edward Cullen”
- Madeline Sluss “The 411 on H1N1”

From Big Creek Elementary:

- Katie Epperson “Not the End of the World”
- Morgan Eversole “Teenage Suicide-A Silent Cry”

Thanks to all the teachers, leaders, judges, parents, HCTC and Gear Up leaders for a successful 4-H Communications event! Congratulations to all the participants for a job well done and Good Luck to our reps at the District event.



Students at Viper Elementary with Ms Pam Brashear (2nd from right in back row) exhibit the visible results of their experiment.

These students participated in the on-line sharing and reporting of their results nationally with other 4-H Youth-Scientists.



Making their own biofuel

Renewable energy sources like biofuels are constantly making headlines in the news today. This experiment explores the production of the biofuel ethanol. It is typically made in the US by converting the starches from corn kernels into the sugars in corn syrup, and then adding yeast to break down the sugars, which releases carbon dioxide and ethanol as byproducts. The ethanol is blended with gasoline and then sold at some gas stations. There you might see a sign at the pump that says "E10," which means 10 percent ethanol and 90 percent gasoline. Several of the Perry County schools enrolled in this experiment to learn more about biofuels and biofuel research.

Biofuels are renewable sources of energy obtained from recently harvested plant materials, and they are at the forefront in the discussion of alternative energy sources. Currently our nation relies mainly on fossil fuels, which are non-renewable energy sources that take millions of years to form and release large amounts of carbon dioxide into the atmosphere. There are various new biofuel options in addition to corn and soybeans which are being researched in each region of the country (find which are being researched in different regions on the map below). In each state, land-grant colleges and universities and the Cooperative Extension System are helping youth learn about the wide variety of possible ingredients to expand the types of biofuels available now and in the future.

- There are almost 8 million flexible fuel vehicles (FFV) on U.S. roads today, but many FFV owners don't know their vehicle is one. [-Department of Energy](#)



Save Energy – Save Money

According to the United States Department of Energy, 46% of your utility bill goes for heating and cooling your home. As we prepare for colder weather, there are a few easy steps you can take to save money on your winter energy bills. To cut your energy use for heating and cooling set your thermostat as high as is comfortable in the summer and as low as is comfortable in the winter. You may also want to consider a programmable thermostat. A programmable thermostat allows you to automatically set your thermostat to turn up and down the heat or air when you are not home. By turning back the temperature during the day while you are at work, the Department of Energy estimates a 10% savings in your utility bills. Proper maintenance is also key to keep your heating and cooling system running efficiently. Don't forget to clean or replace filters on furnaces once a month, you may want to check your filters more often if you have pets at home. Make sure air-registers are not blocked by furniture, carpeting, or drapes. Finally, do not underestimate the value of natural sunlight, during cold weather, keep the window coverings on south facing windows open during the day to allow the sunlight to warm the house, but remember to close drapes and shades in the evening. For long-term savings consider energy-efficient products when you buy new heating and cooling equipment. Home appliances with the ENERGY STAR label meet the U.S. Department of Energy's efficiency guidelines. If you are looking for additional tips to save energy and money at home, check out the Energy Savers <<http://www1.eere.energy.gov/consumer/tips/>> webpage. Energy related educational materials may be found on Moneywise<<http://ces3.ca.uky.edu/moneywise/energywise.html>>.

Source: U.S. Department of Energy -
Excerpt from MONEYWISE



Ready, S.E.T., Go!



Modified Robots line up ready for the contest.



Haley Campbell, Brittany Miller, and Justin Caldwell were members of winning team of Robotic Tug of War.

Robinson Elementary has finished up their project in the 4-H Science, Engineering and Technology core of Robotics this Fall. As a final activity, Mr Michael Slagell allowed the teams to modify their Tankbots and conducted a tug-o-war. Some of the teams changed the tracks out for wheels, some modified their power levels, some added weight here and there. A few added wings and lights as well. All in the name of science, well – that and trying to see whose would out pull the other! Mr Slagell challenged the teams with a model he christened “The Slagell-Gibson” team’s.....and his four wheel drive model could out pull the challenger....as long as it could stay together!

Meet the KY 4-H Teen Council Reps From Perry Co.



Ellen Collins



Kolby Epperson



Tori Stacy

These teens would like to invite any 7th, 8th or high school youth to join us at the next District 2 4-H Teen Council meeting on Saturday, November 14th at 10:30 AM. This meeting is being hosted by Perry County and will be held at the Cooperative Extension Service on Perry Park Road. Lunch will be provided. Come help plan activities for district teens' spring semester.

Upcoming 4-H Quilting Bee

Youth age 9 to 18 are encouraged to enroll in the 4-H Quilting group to meet Monday, December 21st 9 AM to 3 PM at the Perry County Extension Service. We are holding Tuesday, Dec 22nd 9 to 12 noon for finishing up the project for those not finished on Monday. We will be teaching the basics of quilting techniques as we complete various units outlined in the project materials, depending upon skill level. There is a project materials fee of \$5 that includes lunch on Monday. Participants are asked to bring a pin cushion, straight pins, shears, seam gauge in a small box to keep their materials together. Enrollment is limited so don't delay. **Deadline for enrollment is Dec 11th.**

Brittany Claussen



Dates to Remember

November 6	Hazard-Perry County 4-H Teen Issues Council
November 6-8	KY 4-H Teen Council
November 13	Hazard-Perry County 4-H Reality Store
November 14	District 2 4-H Teen Council
November 19-22	Kentucky Issues Conference
December 11	District 2 4-H Talk Meet/ Sign up for Quilting Bee
December 21-22	County 4-H Quilting Bee

HEAD . HEART . HANDS . HEALTH