

**Eric Baker Estill County Extension** Agent for Agriculture & Natural Resources

With cooler weather around the corner, livestock producers need to beware of the potential of prussic acid poisoning after a frost. Certain plants, such as johnsongrass, sudangrass, and sorghum/sudangrass hybrids contain cyanideproducing compounds that are released with frost damage to the plant. The amount of the compound in a plant depends on one or more factors including the size and variety of the plant, whether drought conditions are present, and the extent of physical damage caused by frost. When an animal eats plants containing high levels of the hungry cattle hay or grain grass hybrids also have the utilization.

Extension Forage Special- night when frost is likely; very short, or overgrazing ists and Ruminant Veteri- 4) Drought increases the so that cattle have to eat narian have developed sev- chance for prussic acid beeral tips to reduce prussic cause slowed growth and acid poisoning in livestock: the inability of the plant to 1) Frost/freezing is espe- mature favors the formacially dangerous because tion of cyanogenic comthe plant cells actually pounds in the leaves; 5) rupture allowing prussic Do not graze until 2 weeks acid to be released. Do not after a non-killing frost; 6) graze until well after the en- Plants grown in high nitrotire plant and new shoots gen soil (and low in phosare killed and have turned phorus and potassium) brown (dry). New forage tend to have more prussic any prussic acid; and 10) growth following drought acid potential. Splitting or frost is dangerously high nitrogen applications will in prussic acid. Wait at reduce the risk of toxicleast 7 days after a killing ity. Herbicides such as 2,4 frost to allow the cyanide D can also increase prusto dissipate; 2) Leaves pro- sic acid for several weeks duce much more prussic following application; 7) acid than stems, especially Chopping or ensiling plants young upper leaves. New high in prussic acid will reshoots often contain high duce toxin levels if properly concentrations of prus- cured. However dangerous sic acid. Never graze sor- levels of prussic acid may ghums or sorghum-cross remain if extremely high plants less than 15 inches before cutting. If in doubt, tall ("knee high") to signifi- analyze suspect forages cantly reduce the poten- before feeding; 8) Johnson

compounds, prussic acid before allowing them to potential for nitrate accupoisoning results. Prussic graze forages which may mulation, especially during acid interferes with oxygen contain prussic acid therefore reducing the amount tends to accumulate in the University of Kentucky consumed. Do not graze at lower stem, so cutting hay tial for poisoning; 3) Feed grass and sorghum-sudan

Prussic Acid Caution

drought conditions. Nitrate the lower stem bases (the "stubble") can cause more intake of nitrate and signs similar to prussic acid poisoning. Nitrates can persist even in hay; 9) If you cut Johnson grass or sorghum-sudangrass for hay, it is safe from prussic acid poisoning because the hay curing process neutralizes Wild cherry leaves contain the cyanide compounds. Do not allow access to wild cherry leaves whether they are wilted or not. After storms always check pastures for fallen limbs.

For more information, contact the Estill County Extension office at 723-4557. Educational programs of the Co-

operative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity gender expressions, pregnancy, marital status, genetic information, age, veterar status, or physical or mental disability.





**Calling All Cardinals** If you want cardinals in your yard, fill a tray or tube feeder with safflower seed only. Cardinals love this smooth white seed, while larger birds like grackles and jays don't. Don't be surprised if you see some wrens, tufted titmice or buntings too, since they eat safflower as well. E-mail: birdingbits@cfl.rr.com © 2014 King Features Syndicate, In

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2	7	2	6	5	6	2	4	6	4	7	4	6
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3	4	7	8	6	5	2	5	4	6	4	5	6
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4	5	6	8	6	4	5	2	4	8	5	3	5
Ν	Н	S	D	Т	D	Е	S	S	Υ	А	S	D

HERE IS A PLEASANT LITTLE GAME that will give you a message every day. It's a numerical puzzle designed to spell out your fortune. Count the letters in your first name. If the number of letters is 6 or more, subtract 4. If the number is less than 6, add 3. The result is your key number. Start at the upper left-hand corner and check one of your key numbers, left to right. Then read the message the letters under the checked figures give you.

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# CryptoQuip

This is a simple substitution cipher in which each letter used stands for another. If you think that X equals O, it will equal O throughout the puzzle. Solution is accomplished by trial and error.

Clue: D equals P

DTDKELA JATLCMLN XKUHVLE

LJTKF L ZAHYGFZKE ZATY MGT

JIVLXI L CIXTQ JLAJIA:

"UMIIQIN FTLC."

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Stickeler's Puzzle

#### Stickeler's Answer on Page 11

Jimmie L. Johnson, DMD, PSC **Family Dentistry** 87 Wildwood Place (off Court St.) Irvine, Kentucky (606) 723-3213

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Farming News

#### Thursday, October 5th at 1:30pm

## **"Tree Farmer of the Year"**

Thursday, October 5th is 2017 Tree Farmer of the Year Field Day at the Jack Stickney farm at 2225 Lilly Ferry Road in Irvine. The event will be 1:30 p.m. to 6:00 p.m. Educational tour includes tree plantation, shiitake mushroom production, timber stand improvement practices, technical and financial assistance programs, advanced agricultural practices, and wildlife habitat management. Informational booths will be present too. Note that tour stops may involve moderate walking.

#### Thursday, October 12th at 6:00pm

## **Cattle Producer's Meeting**

The Estill County Cattlemen's Association and Cooperative Extension are sponsoring a cattle producers meeting on Thursday, October 12th, 6:00 p.m. at the Extension office, 76 Golden Court (off Stacy Lane).

The focus for the meeting is cattle nutrition including minerals. Our meal sponsor and guest speaker is Hubbard Feeds representative Shawn Singer. Hubbard Feeds is a division of Alltech. A meal will be provided so make sure to pre-register by October 9th by calling 723-4557. The Estill County Cattlemen's Association will have a business meeting afterward. Everyone is welcome!

## Thursday, October 18th

## Kentucky Grazing Conference

The 2017 Kentucky Grazing Conference will focus on pasture management to control weeds and improve pasture production and will be held: October 17th in Lexington and October 18th in Hopkinsville. The Keynote speaker is Kathy Voth, who has presented nationally on using grazing to control weeds and is a founding partner and editor of the popular online newsletter "On Pasture."

Other speakers will discuss management and chemical options to control weeds including: Dr. Chris Teutsch, UK; Dr. Scott Flynn, DOW; Dr. Greg Brann, NRCS; Dr. Michael Flessner, VT; and Bill Payne, retired dairyman. The popular KFGC Forage Spokesperson contest will be held at the Lexington location. Early registration is \$40 and ends October 4 at https:// 2017kgc.eventbrite.com/ or call 859-257-3358.

