

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

With cool weather finally appearing, livestock of the potential of pruscyanide-producing comgen utilization.

## **Livestock Owners: Prussic Acid Caution**

University of Kentucky for prussic acid because prussic acid poisoning. (dry). New forage growth Herbicides such as 2,4 D frost. Certain plants, such to allow the cyanide to plants high in prussic acid factors including the size inches tall ("knee high") hybrids also have the poand variety of the plant, to significantly reduce tential for nitrate accuextent of physical damage hay or grain before allow- Nitrate tends to accumucaused by frost. When an ing them to graze forages late in the lower stem, so animal eats plants con- which may contain prus- cutting hay very short, or taining high levels of the sicacid therefore reducing overgrazing so that cattle compounds, prussic acid the amount consumed. Do have to eat the lower stem poisoning results. Prussic not graze at night when bases (the "stubble") can acid interferes with oxy- frost is likely; 4) Drought cause more intake of niincreases the chance trate and signs similar to

Extension Forage Special- slowed growth and the in- Nitrates can persist even ists and Ruminant Vet- ability of the plant to ma- in hay; 9) If you cut Johnerinarian have developed ture favors the formation son grass or sorghum-suseveral tips to reduce of cyanogenic compounds dangrass for hay, it is safe prussic acid poisoning in in the leaves; 5) Do not from prussic acid poisonlivestock: 1) Frost/freez- graze until 2 weeks after a ing because the hay curing ing is especially danger- non-killing frost; 6) Plants process neutralizes any ous because the plant cells grown in high nitrogen prussic acid; and 10) Wild actually rupture allow- soil (and low in phospho- cherry leaves contain the ing prussic acid to be re- rus and potassium) tend cyanide compounds. Do leased. Do not graze until to have more prussic acid not allow access to wild well after the entire plant potential. Splitting nitro- cherry leaves whether and new shoots are killed gen applications will rethey are wilted or not. Afand have turned brown duce the risk of toxicity. ter storms always check pastures for fallen limbs. following drought or frost can also increase prus- For more information, producers need to beware is dangerously high in sic acid for several weeks contact the Estill County prussic acid. Wait at least following application; Extension office at 723sic acid poisoning after a 7 days after a killing frost 7) Chopping or ensiling 4557. Educational programs of the Cooperative as johnsongrass, sudan- dissipate; 2) Leaves pro- will reduce toxin levels if Extension Service serve grass, and sorghum/su- duce much more prussic properly cured. However all people regardless of dangrass hybrids contain acid than stems, espe-dangerous levels of prus-economic or social status cially young upper leaves. sic acid may remain if ex- and will not discriminate pounds that are released New shoots often contain tremely high before cut- on the basis of race, color, with frost damage to the high concentrations of ting. If in doubt, analyze ethnic origin, national plant. The amount of the prussic acid. Never graze suspect forages before origin, creed, religion, pocompound in a plant de- sorghums or sorghum- feeding; 8) Johnson grass litical belief, sex, sexual pends on one or more cross plants less than 15 and sorghum-sudan grass orientation, gender identity, gender expressions, pregnancy, marital status, whether drought condi- the potential for poison- mulation, especially dur- genetic information, age, tions are present, and the ing; 3) Feed hungry cattle ing drought conditions. veteran status, or physical or mental disability.

Educational programs of the Cooperative 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, veteran status, or physical or mental disability.

**HEART OF AMERICA** 

**GRAZING CONFERENCE** 

theme is "Kicking the Hav habit: Optimizing Profit-

grazing lands consultant providing services to farm-

ers and ranchers on both private and public lands

across five continents. He conducted 22 years of

beef-forage systems research and outreach while

on the faculty of the University of Missouri-Forage

Systems Research Center (FSRC). His research en-

compassed many aspects of plant-soil-animal inter-

actions and provided the foundation for many of the

basic principles of Management-Intensive Grazing.

Jim is a gifted speaker, author, scientist and pasture

site: https://2019hoa.eventbrite.com or call the Ex-

tension office for details.

Registration can be paid online at the following

Fall Migration!

thistle seed.

buntings.

show up.

You never know who might

Four things to have on hand:

2. White millet tossed on the

ground for sparrows and

3. Fruits and berries for orioles

4. Fresh water for all the birds!

E-mail: birdingbits@cfl.rr.com

and gray catbirds.

1. Feeders for finches filled with

Cindv Brook

ability".

The Heart of America Grazing Conference is October 30th in Burlington, KY (Boone County). The

The keynote speaker is Jim Gerrish, independent

#### Wishing 🏖 8 В D S 6 4 2 8 2 0 G 0 Τ Τ Ε Ν 3 3 6 0 S 2 6 Η Ε 7 8 5 8 2 5 Ε S Α U S 2 5 8

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.

LES

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D

G

N L A

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### **CryptoQuote**

is **LONGFELLOW** 

One letter stands for another. In this sample, A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each week the code letters are different.

NQL EH OSDGKQAD MK

BHXOGAGNSD LH KLGEFMET

QOHE LVD UGELGTD TAHQEF

HJ LAQLV. - JAGEBMK NGBHE

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**AXYDLBAAXR** is LONGFELLOW

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# October 16, 2019

answer

P A N E

A T

E

6. Whole, Whale

7. Gallon, Fallon

8. Apple, Ample

9. Shack, Shark

10. Oldest, Oddest

I M P U G N

G

Ε

1. Kernel, Kennel

2. Beast, Feast

3. Summit, Submit

4. Puddle, Paddle

5. Reach, React

**Even Exchange** 

Weekly SUDOKU

Answer

9 3 5 4 2 6 1 7 8

4 7 8 9 1 5 6 2 3

1 2 6 3 8 7 9 4 5

6 9 4 5 7 3 2 8 1 8 1 3 2 6 9 4 5 7

2 5 7 8 4 1 3 9 6 7 4 1 6 9 8 5 3 2 3 6 2 7 5 4 8 1 9 5 8 9 1 3 2 7 6 4

King Crossword -

Answers

ERG

V E N O M

#### Puzzles4Kids



### **Letter Box**

Solution

Е	Т	G	R	Α	D	Т	L	М
Т	L	D	G	Е	М	Α	Т	R
R	М	Α	L	1	Τ	D	G	Е
G	Α	М	D	R	L	Т	Е	Ι
D	1	Е	Т	G	Α	М	R	L
Т	R	L	_	М	Ш	G	D	Α
L	D	1	М	Т	R	Ε	Α	G
М	Е	Т	Α	L	G	R	Ī	D
Α	G	R	Е	D	1	L	М	Т

#### SHIPS THAT DON'T FLOAT

OWNERSHIP)P PIH\SGNIK)R

#### CryptoQuip answer

If you shorten the length of a casual red-and-green shirt, are you trimming the Christmas tee?

#### **CryptoQuote**

answer

But no pleasure is comparable to standing upon the vantage ground of truth. — Francis Bacon Solution time: 25 mins.

Bible Trivia Answers Now available by Wilson Casev! 2017 Bible

Trivia box calendar loaded with daily teasers.

Beth-peor; 6) Nathan 3) Sackcloth; 4) Zebedee; 5) ANSWERS 1) New; 2) Ruth;

#### Jargen Watering in autumn Woody plants with shallow root systems, such as European white birches, paper birches, Norway maples, silver maples, red maples, Rocky Mountain maples, lindens, alder, hornbeams, dogwood,

willows, and mountain ash, require extra watering when there is little rainfall during the fall months. — B. Weaver

Farming News

**KENTUCKY BEEF** 

The 2019 Kentucky Beef Conference is scheduled

for Monday, October 21st at the Fayette County Ex-

tension office, off Red Mile Road (behind Central

Equipment). Registration begins at 9:00 a.m. and the

This year's conference will cover cattle market-

ing strategies and market trends, nutrition during

drought, water issues during drought, animal dis-

ease traceability update, and confinement feeding

of a buffet lunch and refreshments. You will pay at the door but please register with us by October 18th

so enough food will be prepared. Our office phone

Registration is \$10.00 per person to cover cost

program runs 10:00 a.m. to 3:00 p.m.

options for winter feeding.

number is 723-4557.

**CONFERENCE OCT. 21** 

Source: www.ext.colostate.edu

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## Stickeler's Puzzle



If X<sup>2</sup> is larger than 4, which of the following is true?

- A. X is greater than 0, 1 or 2.
- B. At least one root is zero. C. X<sup>3</sup> is greater than 4.
- D. X + 1 is always positive.
- E.  $2 X^2 + 2$  can never be negative.

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**Stickeler's Answer on Page 11**