

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

With cooler weather in the forecast, livestock producers need to beware of the potential of prussic acid poi- cially dangerous because the soning after a frost. Certain plants, such as johnsongrass, sudangrass, and sorghum/su-released. Do not graze until dangrass hybrids contain cy- well after the entire plant and anide-producing compounds new shoots are killed and that are released with frost have turned brown (dry).

Beware of Prussic Acid Poisoning

a plant depends on one or ly high in prussic acid. Wait more factors including the at least 7 days after a killing size and variety of the plant, frost to allow the cyanide to whether drought conditions are present, and the extent of physical damage caused by more prussic acid than stems, frost. When an animal eats especially young upper plants containing high levels leaves. New shoots often of the compounds, prussic contain high concentrations acid poisoning results. Prus- of prussic acid. Never graze sic acid interferes with oxygen utilization.

University of Kentucky Extension Forage Specialists reduce the potential for poiand Ruminant Veterinarian have developed several tips to reduce prussic acid poi- or grain before allowing them soning in livestock:

1) Frost/freezing is espeplant cells actually rupture allowing prussic acid to be

damage to the plant. The New forage growth following amount of the compound in drought or frost is dangerousdissipate;

> 2) Leaves produce much sorghums or sorghum-cross plants less than 15 inches tall ("knee high") to significantly soning;

> 3) Feed hungry cattle hay to graze forages which may contain prussic acid therefore reducing the amount consumed. Do not graze at night when frost is likely;

> 4) Drought increases the chance for prussic acid because slowed growth and the inability of the plant to mature favors the formation of cyanogenic compounds in the leaves;

5) Do not graze until 2 weeks after a non-killing

6) Plants grown in high nitrogen soil (and low in phosphorus and potassium) tend to have more prussic acid potential. Splitting nitrogen applications will reduce the risk of toxicity. Herbicides such as 2,4 D can also increase prussic acid for several weeks following application;

7) Chopping or ensiling

plants high in prussic acid will reduce toxin levels if properly cured. However dangerous levels of prussic acid may remain if extremely high before cutting. If in doubt, analyze suspect forages before feeding;

8) Johnson grass and sorghum-sudan grass hybrids also have the potential for nitrate accumulation, especially during drought conditions. Nitrate tends to accumulate in the lower stem, so cutting hay very short, or overgrazing so that cattle have to eat 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 because the hay curing process neutralizes any prussic acid; and

10) 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 Cooperative Extension Service at 723-4557 or your veteri-

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seeds, and bat

can be used as

ource: Department of Energy and

Brenda Weaver

droppings

fertilizer.

Protection

Bats are important to ecosystems as

predators of night-flying insects. Some

Vampire bats live in Central and South

bat species eat fruit, nectar or small fish.

America and feed on animal blood. Many

tropical bats pollinate plants and help spread



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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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

WRAWGGWDAW TWNQKWN

QD JFUGQMB DHM QD

JFUDMQMB. MVW CWNM QN

UGSUBN ZWS UDK TUTW;

LFAV GHSWTN IUGFW. PTUAQUD

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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: V equals E

SW LNJVYGSRD IVBV QCTFVE

MVRVTYG T DBVVR FSYBKL

WBKSY, S LKQQNLV SY INKCE

MV LKM-CSJV.

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Monday, October 21st @ 1pm

Keeping It Sweet -- The Scoop on Non-nutritive Sweetners

Sugar serves multiple purposes in food. Nonnutritive sweeteners can be used to replace sugar; however, sweeteners do not have the ability to replace all the roles sugar plays in the food's chemical reactions.

On Monday, October 21, 2013, 1:00 p.m. the Estill County Extension Homemakers and Estill County Extension Service will hold a learning session called "Keeping It Sweet – The Scoop on Sugar and Nonnutritive Sweeteners". Understanding the functions of sugar in food will help consumers determine when sugar can be replaced or combined with nonnutritive sweeteners. You do not have to register to attend this free workshop.

Educational programs of the Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability or national origin.

Saturday, November 9th, 9am-12:30pm

Living Well -- The Holiday Edition Seminar

Looking for a jump start to the holidays? Living Well: The Holiday Edition will be held on Saturday, November 9th, 9:00 a.m. – 12:30 p.m. A great way to kick off the season, this annual entertaining event takes place at the Fayette County Extension Office,.

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Γhe

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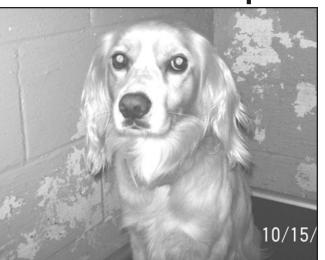
Call 723-8421

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Payment Office: 104 River Drive Irvine, Kentucky

Terry Barnes Owner/Operator John 3:16

Available for Adoption



CTL #1555 Cocker Spaniel Male - 2 Years Old "Ready For Adoption"



CTL #1559 Cocker Spaniel Male - 4 Years Old "Ready For Adoption"

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The Estill Co. Animal Shelter 50 Ginter Road, Ravenna (606) 723-3587 Like Us On Facebook!

Stickeler's Answer

Stickelers Answer

The word is **discontinuation**.

October 16, 2013

FEAR®A.

answer

G K N E E D
F O G G A I N

Even Exchange

1. Ladder, Larder

2. Stuck, Stick

3. Cloth, Sloth

4. Mental Menial

5. Adorn, Acorn

| | N | T | E | R | N |

6. Tense, Terse

7. Picky, Pinky

8. Expert, Expect

9. Nancy, Nanny

10. Bagger, Bigger

Weekly SUDOKU —

Answer

8 7 5 4 3 6 2 9 1

4 2 1 7 9 8 5 6 3

3 6 9 2 5 1 7 8 4

5 1 6 9 8 7 4 3 2

7 9 3 1 4 2 8 5 6

2 8 4 5 6 3 9 1 7

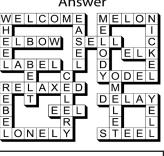
6 3 2 8 7 9 1 4 5

9 4 7 6 1 5 3 2 8

GLAMOR

N O N

Puzzles4Kids

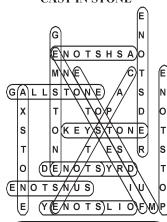


Letter Box

Solution

Ш	0	Е	Α	Р	С		R	М	J
	М	_	С	R	Α	J	Р	0	Е
	Р	R	J	Е	М	0	Α	О	Ι
	Е	М	Τ	Α	J	Р	0	R	С
	C	0	Р	1	Е	R	J	Α	М
	Α	J	R	С	0	М	\perp	Е	Р
	J	Α	М	0	Τ	С	Е	Р	R
		Р	Е	М	R	Α	С	J	0
	R	С	0	J	Р	Е	М	_	Α

CAST IN STONE



CryptoQuote

Excellence resides in quality not in quantity. The best is always few and rare; much lowers value.

— GRACIAN

CryptoQuip

If something were placed beneath a green citrus fruit, I suppose it would be sub-lime

1 5 8 3 2 4 6 7 9 **King** Crossword -Answers Solution time: 25 mins. G O N N A O I L I N G M A R I L Y N M O N R O E C R Y L O N E R I O N

Bible Trivia Answers Casey's trivia book "Know It? ... or Not?"

is available from BearManorMedia.com

James; 7) Solomon 1 Kings; 4) Rams; 6) ther; 2) The Devil; 3) -iəN(l(l:SA3WSNA