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Prussic Acid Caution

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 cyanide-producing 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 compounds, prussic acid

poisoning results. Prussic acid interferes with oxygen utilization.

University of Kentucky Extension Forage Specialists and Ruminant Veterinarian have developed several tips to reduce prussic acid poisoning in livestock: 1) Frost/freezing is especially dangerous because the plant cells actually rupture allowing prussic acid to be released. Do not graze until well after the entire plant and new shoots are killed and have turned brown (dry). New forage growth following drought or frost is dangerously high in prussic acid. Wait at least 7 days after a killing frost to allow the cyanide to dissipate; 2) Leaves produce much more prussic acid than stems, especially young upper leaves. New shoots often contain high concentrations of prussic acid. Never graze sorghums or sorghum-cross plants less than 15 inches tall ("knee high") to significantly reduce the potential for poisoning; 3) Feed hungry cattle hay or grain before allowing them

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 frost; 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 po-

tential 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 from prussic acid poisoning 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 Extension office at 723-4557.

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Wishing Well®

8	7	3	5	7	2	4	5	6	4	3	2	3
A	L	B	D	O	W	K	A	J	N	I	I	G
7	2	8	4	5	2	4	2	4	7	5	4	8
V	S	G	O	R	D	W	O	L	E	I	E	R
4	3	8	6	4	5	8	4	6	7	4	8	4
D	G	E	O	G	N	E	E	Y	O	G	A	I
6	2	8	2	6	2	8	3	6	4	2	6	2
F	M	B	I	R	S	L	E	O	V	Y	M	O
7	4	3	7	4	3	8	5	7	6	3	2	3
F	E	R	J	N	P	E	G	U	P	A	U	Y
5	6	2	7	6	2	6	8	5	8	7	3	8
I	E	R	S	T	S	S	F	D	R	T	C	I
3	8	7	3	7	3	5	7	8	3	8	5	8
H	E	I	E	C	E	E	N	K	D	A	S	

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: Q equals N

QZJPDN LQD DVMOR GNDRVDT
RLQA CPLZS C MDNT NDGZVROMD
GDNRLQ: "CND TLZ VLCSYRLJD
SLQOAYS?"

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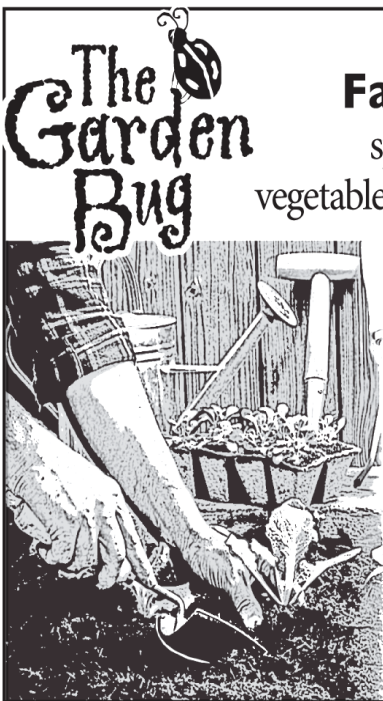
CryptoQuote

AXYDLBAAXR
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.

UHBN H UHB EVDA GFA
ATPPDAA JE GFA QFIAJ
VFQD - HBL GFA ADPEBL
VFQD JE GFA ATPPDAA.
- CFU MHPSTA

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Fall planting is fine for turfgrass, spring-blooming bulbs, cool-season vegetables, perennials, trees and shrubs. The cooler air is easier on both plants and gardeners, but the soil is still warm enough for roots to grow until the first freeze. Pests and diseases lessen in fall, and you also don't need to fertilize as you do in the spring and summer.

- Brenda Weaver

Sources:
www.bhg.com, www.buckscountygardens.com



Identifying Marks

With fall migration underway, learning how to identify birds can be helpful. Questions you can ask yourself are: Does the bird have wing bars like an American goldfinch? Does it have a black cap like the gray catbird? Does it have a specific patch of color like a rose-breasted grosbeak?

E-mail: birdingbits@cfl.rr.com
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Stickeler's Puzzle



What is the value of "U"?

- 1) P + Q + R
- 2) Q + P + S
- 3) Q² + PQ + RS
- 4) W - RS + Q²

P ²	PQ	RS	TU	VW
PQ	Q ²			
RS	R ²			
TU		T ²		
VW			V ²	

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Stickeler's Answer on Page 11

Visit Our Website At
<EstillTribune.Com>

Farming News

from Extension Agent Eric Baker

Thursday, October 11th @ 6:00pm

Cattle Producer Meeting

The Estill County Extension Service and Estill County Cattlemen's Association will have a cattle producer meeting on Thursday, October 11th, 6:00 p.m. at the Estill County Extension office, 76 Golden Court (off Stacy Lane).

Our guest speaker will be Dr. Michelle Arnold, UK Extension ruminant veterinarian, who will give an overview of poisonous plants that impact livestock. A meal will be provided. Please pre-register by October 8th by calling 723-4557.

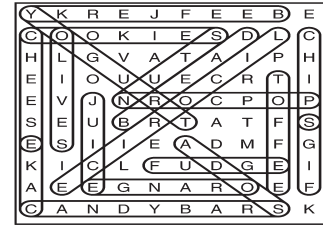
Monday, October 22nd @ 6:30pm

Beekeeper Meeting

Estill County Cooperative Extension will host a beekeeping meeting Monday, October 22nd, 6:30 p.m. at the Extension office, 76 Golden Court, in Irvine. Guest speaker will be Laura Rogers, Kentucky State University small farms agent, and she will discuss preparing your hives for winter. Call 723-4557 to pre-register or for more information.

Puzzles4Kids

Answer



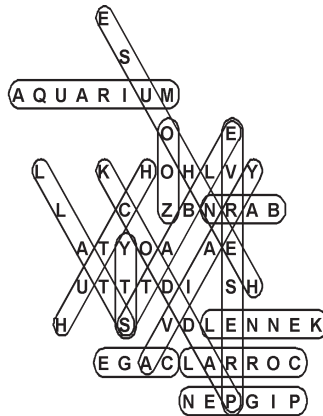
Riddle Answer:
Evaporated milk.

Letter Box

Solution

V	G	R	D	W	E	N	A	I
I	A	E	R	G	N	W	V	D
N	D	W	A	V	I	G	R	E
W	I	V	G	E	R	D	N	A
G	R	A	N	D	V	I	E	W
D	E	N	W	I	A	R	G	V
R	W	D	E	A	G	V	I	N
A	N	I	V	R	D	E	W	G
E	V	G	I	N	W	A	D	R

ANIMAL ENCLOSURES



CryptoQuip

answer

Number one Elvis Presley song about a very repulsive person: "Are You Loathsome Tonight?"

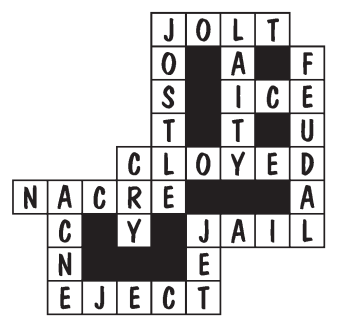
CryptoQuote

answer

Many a man owes his success to his first wife — and his second wife to his success.
— Jim Backus

FEAR & KNIGHT

answer



Even Exchange

answers

1. Grand, Grant
2. Stare, Start
3. Nearby, Nearly
4. Odder, Order
5. Pantry, Paltry
6. Faint, Flint
7. Wafer, Water
8. Muster, Mister
9. Sample, Simple
10. Torch, Touch

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 25 mins.

A	S	K	G	O	F	H	A	F	T		
L	E	I	O	R	E	O	E	L	B	A	
B	E	E	B	E	R	N	S	T	E	I	N
A	N	V	I	L	T	E	E				
T	E	M	P	C	R	A	M	S			
E	I	N	S	T	E	I	N	O	N	I	T
A	T	E	S	T	E	E	P	E	R	A	
S	C	A	B	S	T	E	I	N	W	A	Y
T	H	R	E	W	A	R	G	O			
S	E	A	S	T	A	L	K				
S	T	E	I	N	B	E	C	K	T	O	N
P	O	N	D	E	T	U	I	O	B	I	
A	P	S	E	D	A	R	N	M	O	T	



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The highest compliment my clients can give me is the referral of their friends, family and business partners.

Thank you!



Bible Trivia Answers

Now available by Wilson Casey! 2017 Bible Trivia box calendar loaded with daily teasers.

ANSWERS (1) Neither; (2) Ell; (3) 3,000; (4) Two-edged sword; (5) Gerar; (6) Locust