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Estill County Extension
Agent for Agriculture
& Natural Resources

Watch cattle watering systems this winter

Check your watering system for contamination on a regular basis. Food particles often contaminate water as well as fecal material/urine.

Utilize insulation: indoor watering sheds, insulated buckets/troughs, and insulated water tanks. Take advantage of buildings and terrain that are already available to you.

Avoid ball waterers if you have recently weaned calves in your herd. A calf is unable to push down the ball if it freezes and will not be able to access the water.

Keep water pipes from freezing. Make sure any exposed pipe that is capable of freezing is insulated. Burying water lines is the most common way farmers utilize insulation, although some use hay or fabric and surround the pipe with these materials. Geothermal heating of troughs can be an alternative to conventional insulation, though this can take time to set up.

If any heating elements are being used, check to see if they are keeping water at the desired temperature. While doing this make sure there is no electrical current in the water from a malfunctioning heating unit. Safety first!

Keeping watering systems from freezing during the winter months has been a challenge for as long as domesticated cattle have been raised in cold climates.

Mature beef cattle can consume as much as 30+ gallons of water in a day. The amount will fluctuate depending on the weather, how much the cow is eating, distance to water, or if the cow is lactating. Hydration keeps their digestive tract functioning.

Check waterers daily for any freezing that may occur. Be aware of location (if system is not in a building). Watering systems that aren't exposed to any sunlight will stay frozen much longer than those in a sunny area. Also pay attention to elevation as a lower elevation will stay at a lower temperature in the early part of the day.

Pine needle drop is common

Many are seeing normal fall pine needle drop. Some may be confusing it with some disease or insect attack. The most noticeable is the white pine, a pine easily identified by close examination of a branch and seeing the five needles in a bundle.

Normal needle fall of a white pine, as well as most other pines, will have the inner most needles of the limbs, closest to the main stem of the tree, turning brown. Normally the needles will change to a brownish-yellow first, and then abruptly brown. Early in the winter the needles will fall to the ground, again leaving the

tree uniformly green for the spring. This occurrence helps the tree prepare for winter.

Cause for alarm for any pine, as well as hardwoods, would be seeing foliage turning from green to brown on the exterior of any limb while still green on the interior. If this condition should develop, the tree could have other serious problems.

Contact me at the Extension Office at 723-4557 for more information.

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Fall Rabies Clinic

Where: Animal Clinic of Estill County

1995 Richmond Road, Irvine

When: Saturday, November 17th

Time: 9:00 am – 3:30 pm

Sponsored by: Estill County Health Department & Linda Grimes, DVM.

The Garden Bug



Flowering mums planted outdoors in the fall won't have enough time or energy to develop a hardy root system before winter; the plants will succumb to the frequent freezing and thawing. Instead, keep them in their pots, trim off spent flower heads, and place them in a cool, dry indoor area that does not freeze, keeping them slightly moist. When spring arrives, plant in the ground when threat of frost has passed.

- Brenda Weaver
Source: www.mums.org



Birding BITS BY Cindy Brook
A Full Heart
Sometimes I like to sit on a stool in front of my patio doors and watch the birds while I eat my dinner. I think about how grateful I am for the good life I have, and how a yard full of songbirds makes it even better. They fill me with joy.

E-mail: birdingbits@cfl.rr.com
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Wishing Well®

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

SP SWWQEJSP, XOH EOHYOHV

OQE OHQBV ESIH QPPSUHV QPV

VJEFDEXHV EOHY WBUJPF

"KQQ, ODIKDF!"

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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.

OKWH QCGKH HDJ HYFJ TGK

HDYLX TGK RQL FQXJ CGHD

JLEW FJJH, WGFJCGET

FGNJW HDJ JLEW.

— W GKURJ KLXLGML

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Puzzle Answers

November 14, 2018

Puzzles4Kids Answer

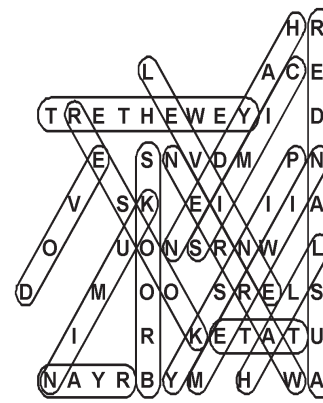
METALS T MEALS
RESHIP H SPIRE
ADRIEN A DINER
BELONG N GLOBE
TALKED K DEALT
LASSES S SEALS

TESTED T STEED
FREIDA A FRIED
KNEADS K DANES
ARMIES I REAMS
UNSTOP N POUTS
ANGLES G LANES

Letter Box Solution

A	S	R	O	L	F	T	P	M
T	M	L	P	A	R	S	O	F
O	F	P	M	T	S	A	R	L
P	L	A	T	F	O	R	M	S
S	R	F	L	M	P	O	A	T
M	O	T	R	S	A	F	L	P
F	P	S	A	O	L	M	T	R
L	A	M	F	R	T	P	S	O
R	T	O	S	P	M	L	F	A

U.S. POET LAUREATES



CryptoQuip answer

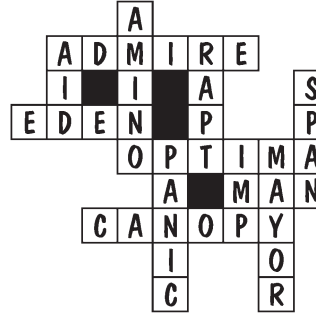
On occasion, the shepherd has heard some annoyed and disgusted sheep crying "Baa, humbug!"

CryptoQuote answer

Just about the time you think you can make both ends meet, somebody moves the ends.
— Source Unknown

FEAR & KNIGHT

answer



Even Exchange answers

- Arbor, Ardor
- Bicker, Backer
- Huddle, Hurdle
- Pitch, Pinch
- Debut, Debit
- Convey, Convoy
- Frank, Prank
- Errand, Errant
- Shrub, Scrub
- Lender, Leader

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 25 mins.

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

Bible Trivia Answers

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

ANSWER: (1) Neither; (2) Assyrrian; (3) Assyrrian; (4) Green; (5) Jericho; (6) Josiah

Stickeler's Puzzle

STICKELERS [sic].
by Terry Stickels

For $X > 0$,

$$4^X + 4^X + 4^X + 4^X = ?$$

- 16^X
- 4^{X+1}
- 16^{4X}
- 4^{2X}

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Stickeler's Answer on Page 11

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