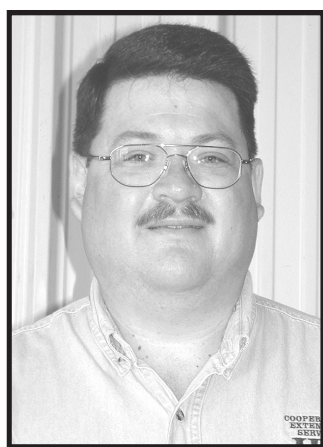




Watch Cattle Watering Systems This Winter



Eric Baker
Estill County Extension
Agent for Agriculture
& Natural Resources

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.

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 alter-

native 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!

The Estill County Extension office will be closed November 26-27 for the Thanksgiving holiday. Our office staff wishes everyone a happy and safe Thanksgiving!

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.

Wishing Well®

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

BIDV GPR ODSEOD UP YRZSICHD
GPRZ PBV IPZHD, GPR BEMM
DADVURCMMG ICAD UP YPVG RY.

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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.

G ZHGBPOZ HJ G KVIOM PC
KPGX QVGQ ZHZ DSXX IOZSU
EUSJJIUS.
— VSOUT MHJJHOLSU

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Scotch heather

In the coldest winter months, the foliage of *calluna vulgaris* (known as scotch heather) changes its appearance from its paler summer colors of orange, gold, silver and green to more vivid shades of red, orange, purple or golden yellow. These brilliant colors look wonderful against the snow! This perennial ground cover plant grows well in cool, moist climates; it will not do well if the air and soil is very dry.

Brenda Weaver

Sources: www.gardenia.net, www.sunset.com

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Birding BITS

BY Cindy Brook

Get Ready for Winter
Are you ready for winter? Some high-fat foods to have on hand are:

- Peanuts, peanuts, peanuts. Unsalted, in or out of the shell.
- Suet cakes or nuggets (any flavor), seed blocks.
- Black oil sunflower seed, sunflower heart chips, safflower seed.

Don't forget roosting boxes and heated birdbaths, too.

E-mail: birdingbits@cfl.rz.com
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Puzzle Answers November 25, 2020

Puzzles4Kids

Answer

How should you talk in an apple library?

Use your in-cider voice.

FEAR & KNIGHT

answer

A	W	L										
L	W	A		F	O	C	U	S				
S	T	Y	L	E								
O		M		Y	R							
		E				N						
		U	N	S	A	F	E					
		S				O	A	F	S			
		E	N	D	O	W						
						L						

Virtual Hemp Field Day

UK Cooperative Extension Service will host a Virtual Hemp Field Day December 8-9 on the videoconferencing platform called Zoom.

During the event, researchers and specialists from the UK College of Agriculture, Food and Environment and the Kentucky Department of Agriculture will discuss topics related to agronomic research, economic research, the latest regulatory guidelines and potential developing markets. At the end of each day, meeting participants will be able to ask questions of the day's speakers during a round table session.

The program begins at 10 a.m. EST and lasts until noon each day. Current and prospective hemp growers, industry representatives, Extension professionals and researchers are invited to participate in the free meeting.

Preregistration is required. Interested individuals can register for the program at <https://bit.ly/36JQwl3>. Event organizers will provide meeting links and event access to participants at least 24 hours before the event.

The complete field day schedule and other information related to the event is available at <http://hemp.ca.uky.edu/> or contact the Estill County Extension Service at 723-4557.

Puzzle Answers

BIBLE WORD SEARCH
Answers

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

eventually have to pony up.
your own horse, you will
When you decide to purchase
answer
CryptoQuip
answer
— Henry Kissinger
pressure.
coal that did well under
A diamond is a chunk of
answer
CryptoQuote

Bible Word Search on Page 7

Stickeler's Answer

Stickelers Answer

The six republics are Slovenia, Croatia, Bosnia and Herzegovina, the Republic of Macedonia, Montenegro and Serbia. The two autonomous regions within Serbia are Vojvodina and Kosovo.

Stickeler's Puzzle on Page 7

Letter Box

Solution

D	R	I	N	K	C	O	L	A
O	A	N	D	I	L	R	K	C
K	L	C	O	A	R	I	N	D
N	K	A	C	L	I	D	R	O
I	D	L	R	O	K	C	A	N
R	C	O	A	N	D	K	I	L
L	O	R	K	D	A	N	C	I
A	N	K	I	C	O	L	D	R
C	I	D	L	R	N	A	O	K

Weekly SUDOKU

Answer

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

Bible Trivia Answers

ANSWERS (1) Old; (2) Bed; (3) Thousands of millions (2) Genesis; (4) Numbers; (5) Sepulchre; (6) Nile

"Test Your Bible Knowledge," with 1,206 multiple-choice questions by columnist Wilson Casey, is available in bookstores and online.