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# Take Precautions with Newborn Calves

With winter temperatures and resulting wind chills, cattle producers need to pay special attention to newborn calves. UK College of Agriculture, Food and Environment ruminant veterinarian Michelle Arnold said extra precautions would go a long way in helping calves survive. "A calf's body temperature often falls below normal due to a slow birth, followed by a delay in standing and nursing," she said. "That is the immediate concern, and then the next step is maintaining the calf's core temperature." If possible, producers should bring cows into the barn to calve in a heavily bedded, clean pen. If cows must calve outdoors, make sure there is dry, clean ground available without a large amount of manure. If cows do calve outdoors and calves show signs of

hypothermia, or there are no natural windbreaks, producers should bring calves in until they are warm and dry.

Signs of hypothermia include shivering and blood shunting. In the early stages of hypothermia, a calf will show vigorous shivering usually accompanied by increased pulse and breathing rate. Cold nostrils and pale, cold hooves are early signs that blood is being shunted away from the body's extremities. Watch for erratic behavior, confusion and a clumsy gait. As hypothermia progresses, shivering stops and muscles become rigid and pulse and respiration slow down. Brain cell metabolism slows and impairs brain function. The calf's level of consciousness deteriorates and signs of life become difficult to detect. The pupils of the eyes will be dilated and fixed, and it may be hard to detect a pulse. The calf may have occasional gasps of respiration, and that may be the only clue that the calf is still alive. Heart failure may be the actual cause of death.

"The two most important factors in calf survival are warmth and colostrum," Arnold said. "Colostrum is a concentrated source of protein,

vitamins, minerals and energy, and it also contains antibodies to diseases or vaccines that the mother cow has been exposed to. Before you give colostrum, you need to make sure to warm the calf because the weak ones may not have enough strength to suckle. Sometimes you may need to deliver colostrum through an esophageal feeder." Dark Karo syrup is a quick source of energy for calves and their bloodstream quickly absorbs it.

UK Extension beef specialist Jeff Lehmkuhler contributed several ways to warm newborn calves: 1) place calves next to floorboard heaters of pickup trucks; 2) submerge wet calves in warm baths and gradually heat the water to 100 degrees Fahrenheit meanwhile supporting the calves' heads to prevent drowning. Continue changing water out to maintain temperature; 3) place calves next to the heater in the house; 4) place calves under heat lamps, but be careful to cover the lamp with a screen so the calf will not get burned as it becomes more active; 5) wrap the calf in warm blankets, but not so hot that they burn the skin, and change the blankets as necessary

to maintain warmth; 6) place the calf in a hot box or warming box, but not so hot that they burn the skin, with some type of venting is necessary to prevent carbon monoxide and moisture. Air movement is important to ensure thorough warming and to prevent hot spots in the warming box; and 7) ask a veterinarian administer warm IV fluids.

"Once the calf is warm, provide colostrum and maintain body temperature," Arnold said. "If the calf is unwilling to suckle and it's not possible to milk the mother cow, you should consider commercial colostrum-replacement products." Calves need colostrum as soon as possible after the suckle reflex has returned, generally within the first six hours after birth, but ideally within the first hour or two. Once the calf is warm and fed, move it back to its mother.

For more information, contact the Estill County Extension Office at 723-4557 or your local veterinarian practice.

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## Wishing Well®

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

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: O equals Y

QP OKL'UW QB EKLGXCWEG  
NQRXQAJB JBZ RUJIO JSKLG  
CQFZ SWJEJE, ZWPQBQGWFO  
RXWRM KLG MJFJNJ-IKK.

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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.

XN F QFK TGZJ KGW CZSS  
SFVZ RXWO OXJ VGQSFKXGKJ,  
SZMOFSJ XW XJ HZVFEJZ OZ  
OZFMJ F TXNNZMZKW TMEQQZM.  
— OZKMI TFAXT WOGMZFE

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# Puzzle Answers

January 1, 2020

### Puzzles4Kids

Answer

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

### FEAR & KNIGHT

answer

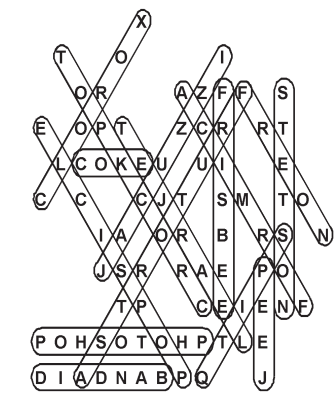
P	E	C	K									
O												
D	I	V	A	N								
E												
R	O	T	T	E	D							
E	T	A										
K	E	T	O	N	E							
E												
N	O	N	E									

### Letter Box

Solution

Q	E	T	F	R	O	I	M	U
F	I	R	M	Q	U	O	T	E
M	U	O	I	E	T	Q	F	R
U	M	F	E	O	Q	R	I	T
E	T	I	R	U	M	F	O	Q
R	O	Q	T	F	I	U	E	M
I	R	U	O	M	E	T	Q	F
T	Q	E	U	I	F	M	R	O
O	F	M	Q	T	R	E	U	I

### TRADEMARKS FREQUENTLY USED AS GENERIC TERMS



### Even Exchange

answers

1. Ponder, Powder
2. Dream, Dread
3. Paper, Paler
4. Banter, Barter
5. Debit, Debut
6. Folly, Filly
7. Adapt, Adopt
8. Entire, Entice
9. Grass, Gross
10. Severe, Reverse

### Weekly SUDOKU

Answer

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

### King Crossword

Answers

Solution time: 21 mins.

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

### Bible Trivia Answers

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

## The Garden Bug

### Houseplant care

- Allow tap water to warm to room temperature before using on houseplants.
- Kill white mealy bugs by touching them with a cotton swab soaked in rubbing alcohol.
- Quarantine new gift plants to be sure they do not harbor any insect pests. - B. Weaver

Source: www.missouribotanicalgarden.org

## Birding BITS

BY Cindy Brook

*Greatest Birding Moment*  
As the year comes to a close, I love to reflect on my greatest birding moment. For me, it was not so much about any single bird as it was setting up a stationary tray feeder. It always has some kind of bird action. Birding is great fun!

E-mail: birdingbits@cfl.rr.com  
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## Farming News

January, 2020

### Fruit Tree Rootstock Orders

The Estill Extension Service will be taking orders for apple and pear rootstocks in January 2020. If you want to propagate a favorite apple or pear, grafting is one of the easiest ways to preserve that cultivar. To graft, you will need scion wood (terminal branch segments from last year's growth collected at the end of February) and a rootstock. If you do not know how to graft, come by our office for information or assistance.

Although rootstock inventory has been tight, we will try to order Malling 7 (55% of standard size), MM.111 (80% of standard) semi-dwarf apple rootstock, and a pear rootstock. Please place your order and prepay by January 24. The rootstocks usually arrive by the last of February or first of March.

## Stickeler's Puzzle

by Terry Stickels

Match the "drome" word on the left with its definition on the right.

- 1) catadrome
- 2) hippodrome
- 3) loxodrome
- 4) prodrome
- 5) velodrome

- a. A warning symptom that appears before an infection or disease.
- b. A line crossing all meridians of longitude at the same angle.
- c. An indoor banked track for cycling races.
- d. A machine used to lift heavy weights.
- e. An oval stadium for equestrian races and events.

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## TIGER

by BUD BLAKE

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ANSWERS (1 Neither; 2) Pergamos; (3) Pearls; (4) Perga; (5) Rivers; (6) Solo; mon