

Eric Baker Estill County Extension Agent for Agriculture & Natural Resources

As we face the fury of winter weather this week, cattle producers should take extra care of newborn calves to ensure their survival. A calf's body temperature often falls below normal in extremely cold conditions due to a slow or difficult birth (dystocia) followed by delayed standing and nursing. Returning the calf's core body temperature to northat core temperature is close-up cows indoors to calve in a heavily bedded, clean pen. If calving outdoors, make sure there is dry, clean ground available for the cows to calve without a large amount of manure. If the cow calves outdoors, bring the calf available.

There are two types of the body's extremities. hypothermia: exposure (acute). Exposure hypothermia is the steady loss of body heat in a cold environment through breathing, evaporation and lack of adequate hair old and thin animals. body heat due to a wet, saturated hair coat in a cold environment. Immersion hypothermia often

Cold Stress and Newborn Calves

occurs after the birthing process because the calf is born soaked with uterine fluids. Other causes of immersion hypothermia of young calves may include being born in deep snow or on wet ground, falling into a creek or being saturated from heavy rains followed by chilling winds.

Faced with a cold environment, the body defends itself in two ways: shivering, to increase muscle heat production, and blood shunting, to reduce heat loss by diverting blood flow away to the body core. Mild hy- to eventual unconsciousbody's core temperature of life are very difficult to drops below normal (ap- detect and the calf may proximately 100° F. for be mistaken for dead. beef calves).

mal (100° F for newborn vigorous shivering is pulse may be undetect- heating pads-be aware calves) then maintaining usually accompanied able. Occasional gasps of that the calf can get by increased pulse and respiration at a rate as low burned from these deof primary importance. breathing rates. In the as four or five per minute vices. Do not leave the calf If at all possible, bring case of newborn calves, may be the only clue that unattended. severe shivering may in- the calf is still alive. Warmterfere with its ability to ing these calves back to These should not be so stand and suckle. Erratic normal temperature can hot that they can cause behavior, confusion and a often save them unless skin burns. Change the clumsy gait, are all signs they go into heart failure. of mild hypothermia. Producers often refer to these thermia is critical. The temperature and not alas "dummy" calves. Se- two most important facvere hypothermia results tors in calf survival are in until warm and dry if as the body temperature warmth and colostrum. *ing box* - the temperature the calf is showing signs drops below 94° F. Cold Before giving colostrum, of hypothermia or if there nostrils and hooves are a chilled calf first needs burns could result. Some are no natural windbreaks early signs that blood is to be warmed as these type of venting is necesbeing shunted away from newborns are typically sary to prevent buildup

(gradual) and immersion oxygenation of the tissues delivered by mouth to a is also important to ennear the body surface. De- weak calf is a quick source sure thorough warming creased blood circulation of readily available energy in the muscles of extremi- and is rapidly absorbed ties results in a buildup of through the mucosa in acid metabolites (waste the mouth into the blood- be administered by a vetproducts). After the shiv- stream. Effective methods erinarian. coat, body flesh or weath- ering stops, it is replaced to warm a calf include: er protection. This type by muscle rigidity. The of hypothermia affects all pulse and respiration of pickup trucks. classes of livestock but rates begin to slow as the **2**. <u>Submersion of wet</u> the Estill County Cooperaparticularly affects young, body core cools to 88° F. *calves in a warm bath* - tive Extension Service at Below a core temperature you must support the calf 723-4557. Immersion hypother- of 94° F, the vital organs mia is the rapid loss of are beginning to get cold. water should be gradually As the brain cools, brain cell metabolism slows, resulting in impaired brain it at that temperature. function. The level of con-



Baby Calves in Winter University of Minnesota Extension from the body extremities sciousness deteriorates <u>to the heater in the house</u> pothermia occurs as the ness. Below 86° F., signs to dry and warm the hair

The pupils of the eyes will In the early stages, be dilated and fixed. The **<u>der a heat lamp</u>** or on

Treatment of Hypo- maintain a consistent too weak to suckle. Karo of carbon monoxide and Paleness is due to poor syrup (dark is preferred)

and/or using a blow dryer coat. Never leave calves unattended next to a portable space heater. 4. Placing the calf un-

5. Warm blankets blankets as needed to low the calf to cool off.

6. Hot box or warmshould not be so high that moisture. Air movement of the calf and prevent hot spots in a warming box.

7. <u>Warm IV fluids</u> may

For more information 1. *Floor board heaters* on beef cattle production and management, contact Educational programs of the Coop-erative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national ori-gin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expressions, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability.

ding

Cindv Brook

	W	1	s h	11	n	g			W	e		ß
4	5	6	2	4	5	2	4	5	8	3	5	2
L	S	Е	Κ		U	Е	F	R	А	Ν	Ρ	E
7	4	2	5	7	6	3	5	3	7	5	6	5
В	Е	Ρ	R	Е	Х	Е	Ι	W	А	S	Ρ	E
2	5	6	4	3	8	3	5	8	2	5	2	6
0	G	Е		Т	Ρ	Н	U	Е	Ν	Е	W	С
4	3	7	4	8	6	7	3	2	5	6	3	7
S	0	L	Ν	R	Т	Е	U		S	А	G	Α
6	5	8	5	3	8	6	7	8	7	6	3	2

5	5	8	5	3	8	6	1	8	1	6	3	2
Г	Т	F	S	Н	Е	I	D	С	Е	0	Т	Ν
7	2	3	6	4	8	2	6	2	4	6	2	6
R	Ν	S	Ν	0	Т	I	S	Ν	Т	G	G	R
4	6	4	8	6	4	8	4	8	4	8	4	8
3	0	Ο	U	W	R	Ν	Ι		Ν	0	G	Ν
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.

©2021 King Features Syndicate, Inc.

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: X equals A

EB XG W.X. CXRFCXWW AZL NXR X TGXJT BLZ RTFIJNEGD AEJIQZFR, ER NF XG XZIBQW OLODFZ?

©2021 King Features Synd., Inc.



to prevent drowning. The warmed to 100° F and will need to be changed to keep 3. Placina calves next

Saint John's Wort

G C Traditionally, sprigs of this plant were harvested in June to honor St. John the Baptist, then hung near a painting or statue of him in the home to protect it from evil spirits. As a garden plant, it performs best in fertile soils with ample moisture, but can tolerate drier conditions once established. Saint John's Wort has long been used in healing treatments for kidney ailments, insomnia, depression, lung ailments and in wound care. - Brenda Weaver MEDIEVAL WOOD CUT

Source: www.thespruce.com

Puzzle Answers

BIBLE WORD SEARCH





Bible Word Search on Page 7

Stickeler's Answer

ground.

Winter Help

shell

flavor.

Fab Five High-Fat Foods:

1. Unsalted peanuts, in or out of

2. Suet cakes or nuggets -- any

3. Hulled sunflower heart chips.

5. Natural peanut butter spread on bread and tossed on the

E-mail: birdingbits@cfl.rr.com

(Every bird loves these.)

Black oil sunflower seed.

Stickelers Answer

- 1) stale steal, teals, least, tales, slate
- 2) stance ascent, secant, enacts
- 3) stripes persist, priests, sprites (some references have "esprits")
- 4) sublet subtle, bluest, bustle
- 5) stained detains, instead, sainted

Stickeler's Puzzle on Page 7

February	山口の山の 17, 2021							
Puzzles4Kids	FEAR® Answer							
What do you get if you cross a sheep and a porcupine?	0 R E R 0 R A L L Y S H Y I I T 0 Y H M M M H A T E D N R R F F F							
An animal that knits its own sweaters.	EVEN Exchange							
LITERARY GENRES	Iraii, Irain S. Jerry, Terry Wander, Wonder Gross, Grass Gross, Grass Saber, Corset Saber, Sober							
E ORAI T W CGTTHRILLER NAMI O S SALADVENTURE FOB WYRETSYM P R OR I UNRORROH	Solution time: 23 mins. G R A B M E S A S T L I A G O A R O W H O E S H A R K T A N K A L T N I T S W A R D S L A S E R T A N K A L T E C H O D O O R S T O P A A C U R E D U M A F I D D L E R S B R E T E Y E S P E N N E T O T E M J A V A E R R S H O R T T E R M							
Letter Box Solution	Weekly SUDOKU							
A R E O Z B N C I N B I C R E Z A O O C Z I N A E R B I E B A C O R X Z	2 7 6 8 1 4 3 9 5 4 1 3 5 7 9 6 8 2 9 5 8 2 6 3 1 4 7 3 2 5 4 9 1 7 6 8							
R N A Z B I O E C	1 4 7 6 5 8 9 2 3							

R

Е

Bible

С В Ν

Irivia Answers

Test Your Bible Knowledge," with 1,206 multiple-choice questions

by columnist Wilson Casey, is available in bookstores and online.

0 R

6 9 5 3 2 1 4 6 8 9 7 7 8 1 9 2 5 4 3 6 38 6 9 4 7 2 5 puiw

(9 ;sumisenO (2 ;shinom

2) Pray; 3) Stephen; 4) 4

ANSWERS 1) Neither;