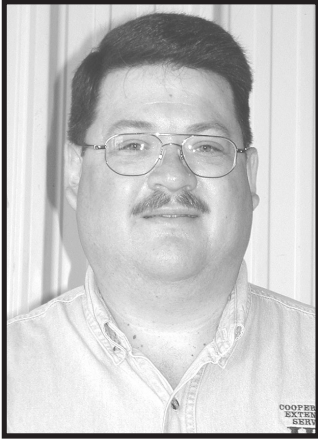


# Summer Heat Can Stress Farm Animals Too



**Eric Baker**  
Estill County Extension  
Agent for Agriculture  
& Natural Resources

Summer is officially here and so is the heat and humidity. Like humans, livestock are feeling it too. Producers should have options to keep livestock thriving in the summer heat.

"When you get a combination of heat and humidity, it can cause concern for livestock," said Matthew Dixon, agricultural meteorologist for the University of Kentucky College of Agriculture, Food and Environment. "We go by what is called a 'livestock heat stress index' to determine what level of concern farmers and pet owners need to have for their animals."

The index helps producers know when heat stress could create a problem for their animals so they can be even more vigilant in making sure animals have the necessary resources to combat and withstand the conditions. The state has already experienced days in the dangerous and emergency livestock heat stress categories.

"The most important thing producers can do is provide cool, clean water and



Photo courtesy of UK Ag Communication

shade," said Jeff Lehmkuhler, UK beef specialist. "It's also a good idea to avoid working or transporting animals during periods of danger or emergency heat stress."

Horses have difficulty regulating their body temperature when temperatures exceed 90 degrees. If humidity is high, the temperature doesn't even have to reach 90 degrees to make life uncomfortable for horses.

"Horse owners can reduce heat stress by scheduling activities during the cooler part of the day and making sure horses have plenty of water," said Bob Coleman, UK equine extension specialist. "If you do transport horses during the cooler part of the day, give water before, during and after transportation to reduce the risk of dehydration."

Coleman added that even non-working horses will double their water intake during hot weather. Owners should allow them to drink

often to help maintain water balance.

"If you let them drink often, it can relieve the horse's urge to drink a lot of water after exercise, and they need to gradually drink after a workout," he said. "Also, remember lactating mares have special water requirements, because they are using water for milk production as well as body temperature regulation."

Hot weather also increases horses' need for salt, because they lose the mineral during sweating.

For dairy cattle, it is important to keep buildings as open as possible to allow air to circulate. Fans can make a big difference, and sprinkler systems that periodically spray a cool mist on the animals are also beneficial.

Poultry are especially prone to heat stress. Mortality during extreme heat can be significant, and egg production and hatching rates can drop.

"Since the birds don't have sweat glands to help get rid of excess body heat, they have to pant to cool down," said Jacquie Jacob, UK poultry extension project manager. "It's important to make sure chickens are in well-ventilated areas and they have access to clean, cool water at all times."

The UK Agricultural Weather Center provides statewide and county-specific weather information, alerts, livestock heat stress conditions and more. To view the index for a specific location, go to <http://weather.uky.edu/ukawc2.php> or click a specific location from the Kentucky map you see at <http://weather.uky.edu>. Call 723-4557

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## Wishing Well®

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

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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: V equals D

BQSGR YWR UQFR-AFRNYWQSP  
ARNBY QB YCYN00H VRUQGQRSY  
QS MFCMRF BORRM, NOO VNH  
YWR VFNPCS QB VFNPPQS'.

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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.

KRM IBOIKJ LQPO OEPNP KRM  
JSRRU OWSE JIZ ARBUOKQ —  
QROEPPN. —  
T. JVRSS TWSYAPNIBU

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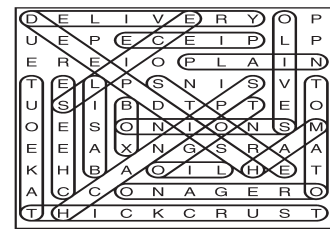
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# Puzzle Answers

July 4, 2018

### Puzzles4Kids

Answer



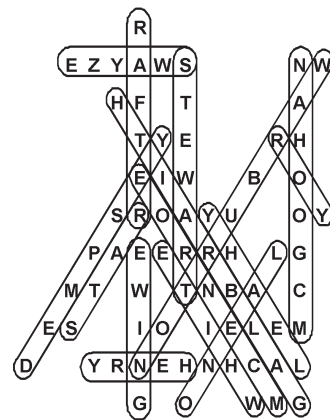
Riddle Answer:  
Pupperoni.

### Letter Box

Solution

I	A	O	R	D	V	F	N	K
N	V	D	F	A	K	R	I	O
F	R	K	N	O	I	D	V	A
A	D	R	O	V	N	K	F	I
K	I	N	D	F	A	V	O	R
O	F	V	I	K	R	A	D	N
R	K	I	V	N	D	O	A	F
D	N	F	A	R	O	I	K	V
V	O	A	K	I	F	N	R	D

PATRICK —



### CryptoQuip

answer

Since the fire-breathing beast is totally deficient in proper sleep, all day the dragon is draggin'.

### CryptoQuote

answer

You always knew where you stood with Sam Goldwyn — nowhere.  
— F. Scott Fitzgerald

### FEAR & KNIGHT

answer



### Even Exchange

answers

- Chick, Click
- Lower, Mower
- Ruffie, Raffle
- March, Marsh
- Gamble, Garble
- Steer, Sheer
- Weaker, Weaver
- Scoop, Sloop
- Bagger, Badger
- Folly, Filly

### Weekly SUDOKU

Answer

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

### King Crossword

Answers

Solution time: 21 mins.

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

## The Garden Bug

Also known as Peruvian lily plants or "Lily of the Incas," alstroemeria like full sun. They are not hardy against strong winds, so locating them where other plants or structures can block the wind for them will work best. Plant so that the root ball is just even with the soil; gently water the root ball as you fill in soil around it. Alstroemeria is a thirsty plant, but if the soil does not drain well, the plants will decline.

— Brenda Weaver  
Sources: [www.easytogrowbulbs.com](http://www.easytogrowbulbs.com)

## Birding BITS

BY Cindy Brook

### Hawks vs. Doves

A sharp-shinned hawk has been patrolling my yard, catching doves for an evening meal. While I understand this is nature, it is a bit unsettling to watch. One way to protect the doves is to toss seed on the ground near brush cover. The doves always find it.

E-mail: [birdingbits@cfl.rr.com](mailto:birdingbits@cfl.rr.com)  
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## Stickeler's Puzzle

by Terry Sticklers

If  $X < 1$  is the following true or false?

$$X|X|^3 < |X|^X$$

- Sometimes true
- Always true
- Always false
- Impossible to solve

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## Americanisms

"I can't change the direction of the wind, but I can adjust my sails to always reach my destination."  
— Jimmy Dean

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## Century 21

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Thank you!

## Bible Trivia Answers

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

ANSWERS (1) Neither: (2) Liberty; (3) Truth; (4) Romans; (5) 0; (6) Paul