

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

You may be wondering if it's necessary and economical to apply fertilizer to your pastures and hay grounds this fall.

According to UK Extension soils specialist Edwin Ritchey, the answer will depend on your specific situation. When considering

## Fertilizing hayfields and pastures in the fall

fertilizing any field, the first thing you need to do is examine your soil test. If you have not taken soil samples within the past three years, you need to collect new ones before making a decision. From the soil test results, determine if anything is limiting. In terms of soil pH, the minimum value depends on the type of forage you're producing. If you grow alfalfa and the pH is below 6.0, you should apply lime. A grass-legume mixture usually can tolerate soil pH down to about 5.8 and a pure grass system probably can go down close to a pH of 5.5 before yields are affected. Similar statements can be made for phosphorus (P) and potassium (K) nutrition, with alfalfa requiring the most

and pure grass, specifically fescue, requiring the least.

The University of Kentucky College of Agriculture, Food and Environment recommends P applications starting when the soil test P level drops below 60 pounds per acre and K when soil test K drops below 300 pounds per acre for grasses and legumes. If you are growing alfalfa, we recommend applications for K levels below 450 pounds per acre. If soil test levels are above these numbers, the likelihood of a yield response to additional P and/or K fertilizer is extremely low. But if you want to be sure that P and K are not limiting, apply fertilizers as recommended. If you are conservative and assume some risk that

P and K might reduce yield, you might allow soil test levels to decline further. From small plot research, we know that once soil test P drops below 30 pounds per acre and/or soil test K drops below 200 pounds per acre, a yield response to added fertilizer is likely, therefore; these would be the minimum tolerable levels.

For more information on managing hayfields and pastures, contact the Estill County Extension office at 723-4557.

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**Estill Extension Service**  
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Call 606-723-4557

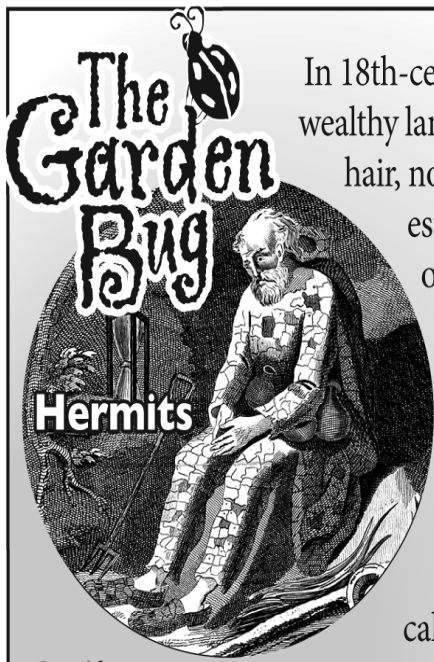
September 18th @ 6pm

### Cattle Producers Meeting

Estill County Extension and Estill County Cattlemen's Association are hosting a cattle producer meeting on Monday, September 18th, 6:00 p.m., at the Estill County Extension office. Paris Stockyards is sponsoring the meeting and a catered meal will be provided. Please pre-register by calling 723-4557 by 12:00 p.m. on September 14th.

### "Tree Farmer of the Year" Field Day is October 5th

Congratulations to Jack Stickney and family of 2225 Lilly Ferry Road, Irvine. They received the 2017 Tree Farmer of the Year Award for their stewardship and management of their forest lands. Mark your calendars for Thursday, October 5th for the Tree Farmer of the Year Field Day at the Stickney farm. The event will be 1:30 p.m. to 6:00 p.m. Educational tour includes tree plantation, shiitake mushroom production, timber stand improvement practices, technical and financial assistance programs, advanced agricultural practices, and wildlife habitat management. Informational booths will be present too. A meal will be provided so please pre-register by calling 723-4557 by September 29th. Note that tour stops may involve moderate walking.



Hermits

Detail from  
*The Hermit in the Garden:*  
From *Imperial Rome to Ornamental Gnome*,  
by Gordon Campbell, Oxford University Press

In 18th-century England, Scotland and Ireland, wealthy landowners hired persons to grow their hair, not wash, and live as "hermits" on their estates. This symbolized elite awareness of melancholia and mortality amongst the nobility. Towards the end of the century, erecting statues of such figures replaced the actual hiring of persons to live the part on one's property, and it is supposed that the placing of smaller statues commonly called "gnomes" in one's garden evolved from this practice. - Brenda Weaver

Source: www.atlasobscura.com

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#### Seed Tips

1. Freeze seed for 24 hours to kill bugs, moths and other creepy-crawly things and their eggs.
2. Try safflower seed if you don't want nuisance birds like grackles or pesky squirrels.
3. Use hulled sunflower chips or a waste-free blend to avoid messy hulls under your feeder.

E-mail: birdingbits@cfl.rr.com  
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"It's my job to instill some confidence in you losers!"

### Stickeler's Puzzle



by Terry Stickels

If P and Q are prime numbers,  
how many divisors does the  
product P<sup>4</sup>Q<sup>7</sup> have?

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#### Stickeler's Answer on Page 11

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

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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 S

TOUL IAP'GU EQAVU ULAPCO JA

CUJ JOUGU AL R MKS'V JOGUU-

TOUQUUG, RGU IAP TKJOKL

JGKMKLC SKVJRLEU?

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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.

ZSGCCGP RLG VFGJ KFX FRWG

YXVFQYM VX CRJ, RYP KFX

TRYXV ZG DGLCIRPGP VX

CRJ QV.

- ORNGC LICCGSS SXKSS

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## Puzzle Answers September 13, 2017

### Puzzles4Kids

Answer



### FEAR & KNIGHT

answer

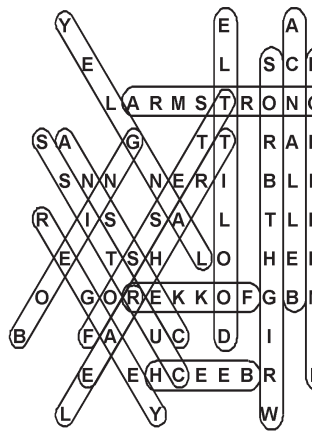


### Letter Box

Solution

N	T	I	E	J	P	O	A	H
H	O	P	I	N	A	J	E	T
E	J	A	H	O	T	I	N	P
J	E	T	O	I	H	N	P	A
I	P	N	T	A	E	H	J	O
A	H	O	J	P	N	T	I	E
O	N	E	P	H	I	A	T	J
T	I	H	A	E	J	P	O	N
P	A	J	N	T	O	E	H	I

### AVIATION PIONEERS



### CryptoQuip

answer

When you're close enough to get there on a kid's three-wheeler, are you within triking distance?

### CryptoQuote

answer

Blessed are they who have nothing to say, and who cannot be persuaded to say it.

- James Russell Lowell

### Even Exchange

answers

1. Barber, Barter
2. Crust, Crest
3. Nearly, Nearby
4. Doris, Boris
5. Potter, Porter
6. Leave, Weave
7. Brick, Brisk
8. Andrew, Andrea
9. Player, Prayer
10. Miley, Miles

### Weekly SUDOKU

Answer

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

### King Crossword

Answers

Solution time: 24 mins.

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

### Bible Trivia Answers

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

ANSWERS (1) Neither; (2) 2 Kings; (3) John; (4) Jubal; (5) Natn; (6) Haran