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Whether in lawns or lush farm fields, cool season grass species are an important part of the Kentucky landscape. This article discusses using nitrogen fertilizers to improve the stand and growth of cool season grasses.

PASTURES OR HAY-FIELDS: When most farmers think of nitrogen (N) fertilization of cool season grass pastures and hay fields, they think of early spring and late summer.

Consider applying nitrogen to the cool season grasses in November

Some producers are now taking a cue from turf-grass professionals who routinely apply nitrogen in the late fall (late October and November in KY). Obviously you don't care about late season green color in forage stands like turf, but the advantages of increased grass density (more tillering), improved weed competition, and early spring green-up are just as important in a forage stand as on a golf course or lawn.

The goal is to apply light N rates after grass growth has slowed, but when the leaves are still green. Nitrogen applied in too early (before mid-October) can stimulate excess growth during the time of the year when stands should be preparing of winter. On the other hand, N applied late fall

(late October through November) is taken into the plant and improves root growth, tillering, and energy storage.

Current turf recommendations call for 60 lbs N/acre for late fall fertilization. This rate is fine for forage stands, but a more economic rate of 30 to 40 lbs N/acre (about 75 pounds of urea) is still sufficient to increase tillering and stand density.

HOME LAWNS: Homeowners should also consider applying nitrogen fertilizers to their lawns later this month. Some folks apply nitrogen in the spring, which can reduce drought tolerance of the cool season lawn. Late October into November is the preferred time to apply nitrogen to lawns to improve the root system, increase tillering, improve

stand, reduce weeds, and give it that nice dark green color.

Nitrogen recommendations for lawns range from 1 to 1.5 pounds of N /1,000 square feet. In practical terms, the rate per 1,000 square feet would be 2.25-3.25 pounds of urea.

For more information about fertilizing turf or forage grasses, contact the Estill County Extension Office at 723-4557.

Note that our office will be closed November 28-29th for the Thanksgiving holiday. Wishing you a happy and healthy Thanksgiving!

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Wishing Well®

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

NO U JNXF ZNPPUDA QXPF

XAAMR U RNXDPA OCXAWUP

ZAINYPA, N BQCPM YUPP NJ

U QXA-IAUWRA JQBX.

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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.

M UMB RZLGO OZ BZSKNBV

NT KA RMNSAO LBSNG KA

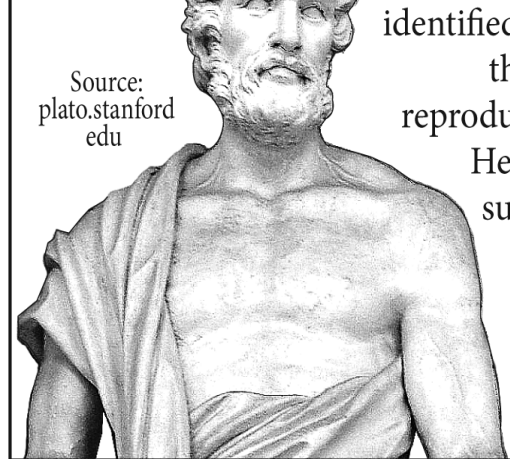
JZLGO OZ NS QZ RAGG SKMS

BZ ZBA JZLGO TNBO TMLGS.

— YZKB KABIW BARUMB

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The Garden Bug



Source: plato.stanford.edu

Theophrastus (c. 371–287 BCE) was a philosopher, and a close colleague of Aristotle. One of his many interests was plant life. In his writings on them he identified hundreds of plants, detailing their appearance, various parts, reproduction, habitat and cultivation. He meticulously categorized and subdivided the plants according to their differences. Modern botany owes much to this work done in ancient times.

— B. Weaver

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B.I.R.D. Gratitude

B is for the Beauty that every bird has.

I is for the Interesting calls they make and songs they sing.

R is for Red birds that faithfully come to our yards.

D is for our joyful Days because we love birds!

E-mail: birdingbits@cfl.rr.com
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Stickeler's Puzzle

STICKELERS [sic]
by Terry Stickels

How many days are in 5,000,000 seconds?

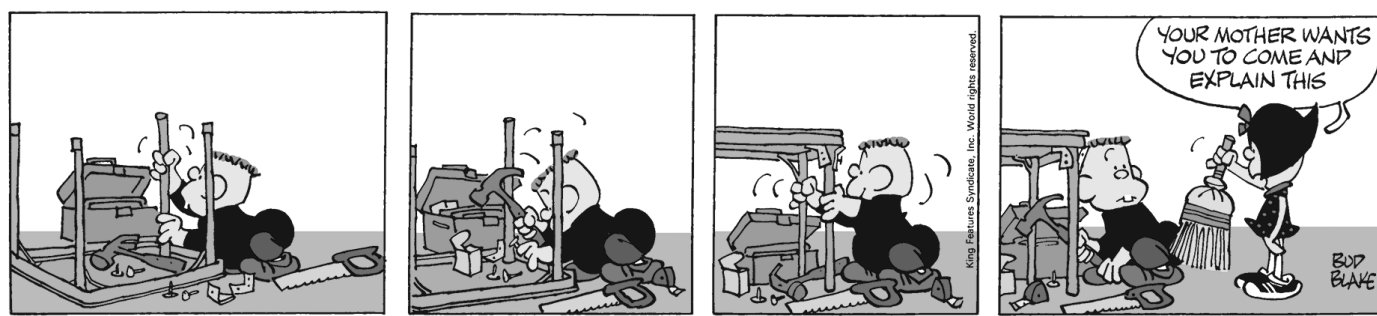
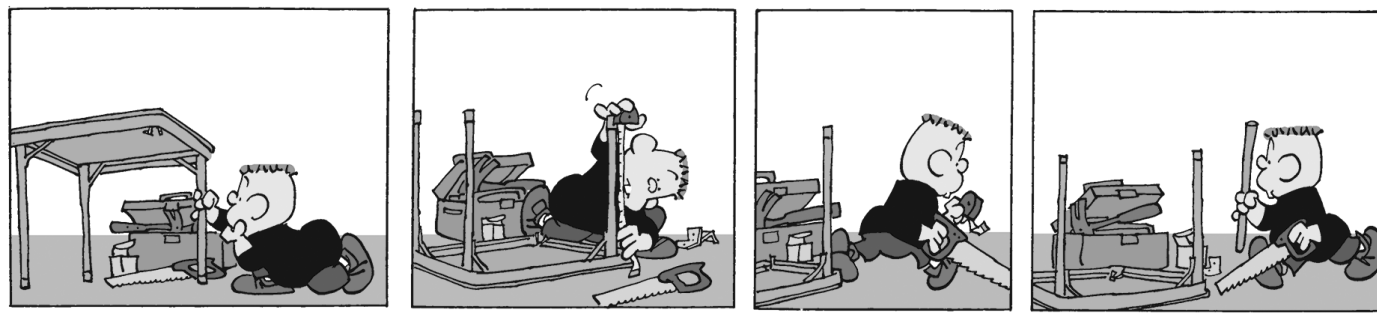
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Stickeler's Answer on Page 11

TIGER



TIGER



Farming News

Thursday, November 21st at 5:00pm

The Estill County Agriculture Development Council will meet Thursday, November 21, 5:00 p.m. at the Estill County Extension office. The meeting is open to the public. For more information, call 723-4557.

Tuesday, November 26th at 7:00pm

The Estill County Extension Council will meet Tuesday, November 26, 7:00 p.m. at the Estill County Extension office. All Extension boards and council meetings are open to the public. For more information, call 723-4557.

by BUD BLAKE

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Puzzle Answers

November 20, 2019

Puzzles4Kids

Answer

When the Pilgrims first landed in America, where did they stand?

On their feet.

Letter Box

Solution

M	O	D	E	L	T	C	A	R
A	R	E	C	D	O	T	L	M
T	C	L	A	M	R	E	O	D
L	M	R	D	C	E	A	T	O
C	T	A	O	R	M	D	E	L
D	E	O	L	T	A	M	R	C
R	D	T	M	A	L	O	C	E
E	A	M	R	O	C	L	D	T
O	L	C	T	E	D	R	M	A

APPEND A "T" TO MAKE A NEW WORD

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

CryptoQuip

answer
If a tiny village only needs a single funeral vehicle, I would call it a one-hearse town.

CryptoQuote

answer
A man would do nothing if he waited until he could do it so well that no one could find fault. — John Henry Newman

FEAR KN&T

answer

			F										
		C	L	E	A	V	E						
		A	T										
F	E	N	C	E				R	U	G			
		A						A	A	I			
		R						A	N	T	L	E	R
		F	A	R								L	
		U											
		L	A	Y	E	R							

Even Exchange

answers

- Wafer, Water
- Pasta, Paste
- Castor, Pastor
- Scold, Scald
- Nickel, Nicked
- Tarry, Terry
- Remain, Retain
- Relay, Relax
- Throw, Throb
- String, Strong

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 21 mins.

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

Bible Trivia Answers

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

ANSWERS 1) Psalms; 2) Will; 3) Unthankful people; 4) Mercy; 5) At your own will; 6) Fish's belly