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Fertilizing Grass Pastures

for good yields. Soil pH levels should be kept in the 5.5 to 6.5 range. Although cool-season grasses will survive at fairly low soil test levels of phosphorus (P) or potassium (K), growth and yields will be poor. Therefore, soil test levels should be in the medium range for good production and annual topdressings should be made on low-testing soils.

Timely nitrogen (N) applications will increase the production of grasses during particular seasons. Research data over a period of years indicate that dry matter can be increased from about 1 ton per year with no N to about 4 tons per year with up to 200 pounds of N per acre. Tall fescue is generally more responsive to N than orchard grass, with bluegrass being much less responsive. Topdressing in late winter or early spring (February 15-March 15) just before growth begins will increase growth so that grazing can begin about 2 weeks ahead of pastures receiving no nitrogen. This effect can

be used as a means of lowering over-wintering feed costs. Another topdressing in late spring following a grazedown or hay cut will stimulate growth that will carry over into the low production period of the summer. Topdressing following a grazedown or clipping in late summer will stimulate fall growth, which, if properly used, will extend grazing several weeks later into the fall and winter. Research in Kentucky has shown little difference among commonly used N sources for topdressing cool-season grasses during late winter and early spring. From mid-May until October, topdressed urea may not be as effective as other sources because of volatilization. N losses from urea topdressed during this time will likely be on the order of 15 to 20 percent. The amount of nitrogen to topdress should be dependent on how much additional production is needed. If a total of more than 100 pounds of N per acre per year is to be used, it should be applied

in split applications. No more than 200 pounds of N per acre per year should be used.

On predominantly grass pastures, cattle can have a health problem called grass tetany. Tetany is a condition that results from an imbalance of magnesium in their blood and can be fatal. Tetany usually occurs in the spring with nursing cows where grass pasture is the only source of feed. Late winter or early spring N applications onto fields testing very high in potassium or fields that have received high rates of potassium fertilization can increase the risk of grass tetany. Supplemental feeding of magnesium to nursing cows on such fields is recommended as a means of lowering tetany risks. Come by the office and ask for UK Beef IRM Mineral Recommendations.

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There are an estimated 7 to 7.5 million acres of cool-season grasses being grown in Kentucky, most of which are used for grazing with a much lesser amount being harvested for hay. Because of the similar growth pattern of cool season grasses, they will respond similarly to fertilization practices.

Although cool-season grasses will grow over a wide range of soil types, a soil test should be completed to determine exactly what soil amendments are needed

Select Disease Resistant Varieties For The Garden

Seed and nursery catalogues do bring visions of your next garden and the delicious produce they yield. They offer so many choices it is hard to pick the best varieties. The same catalogues that bring dreams of the perfect garden contain a wealth of information about varieties that will help prevent garden plant diseases caused by fungi, bacteria, viruses and nematodes.

Most catalogues will state what to expect in disease resistance for each variety. Letters often are used as abbreviations in the fine print. An example is tomato disease resistance where F is for Fusarium wilt, V for Verticillium wilt, and N for root knot nematode.

Using disease-resistant plants is the safest, most reliable way to control garden diseases. It doesn't matter if pathogen populations are abundant, or conditions are ripe for disease development, because resistant varieties provide

strong biological protection from disease. In addition, resistant varieties generate good yields without having to resort to costly chemical or laborious cultural controls.

By selecting varieties that resist disease, you are investing in the safe, biological way to control devastating diseases in the garden. A publication lists disease resistant vegetables recommended for Kentucky is UK Extension Publication ID-133, entitled Vegetable Cultivars for Kentucky Gardens. Stop by our office at 76 Golden Court off Stacy Lane or go to the internet website [HYPERLINK "http://www.ca.uky.edu/agc/pubs/id/id133/id133.pdf"](http://www.ca.uky.edu/agc/pubs/id/id133/id133.pdf) <http://www.ca.uky.edu/agc/pubs/id/id133/id133.pdf> to print your own copy.

For more information on growing plants and managing plant diseases, contact the Estill County Cooperative Extension Service at 723-4557.

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

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.

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.
QGQRXW GLX WKOZ G YROX
AGE DV WDGLD FXVFIX.
- CVY ZXLVIC
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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: **W** equals **S**
WXKKDWJMV H ZGQCXT JW
DXFWJNQ DM H WZDCZGJMV GDF
NHO, ZDXPN GQ TQ H
MJMQFO-NQVCQQ HMQVP?
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Puzzle Answers

March 5, 2014

Puzzles4Kids
Answer

FEAR & KNIGHT
answer

Letter Box
Solution

T	I	E	R	U	P	M	C	Y
M	Y	P	I	C	T	U	R	E
R	C	U	Y	M	E	T	I	P
Y	T	R	E	I	U	C	P	M
P	U	I	C	T	M	E	Y	R
C	E	M	P	R	Y	I	U	T
E	M	Y	U	P	I	R	T	C
I	P	C	T	E	R	Y	M	U
U	R	T	M	Y	C	P	E	I

Even Exchange
answers

- Gamble, Garble
- Snail, Snarl
- Brink, Bring
- Phone, Prone
- Hoover, Hooper
- Easel, Edsel
- Dollar, Collar
- Greet, Great
- Style, Stale
- Posies, Ponies

VEHICLES

Weekly SUDOKU
Answer

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

CryptoQuote
answer
Babies are such a nice way to start people.
- Don Herold

King Crossword
Answer
Solution time: 21 mins.

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

Bible Trivia Answers
Casey's trivia book "Know It? ... or Not?" is available from BearManorMedia.com

ANSWERS: (1) Old; (2) Aaron; (3) Titus; (4) Cedar; (5) Kish; (6) Burning bush