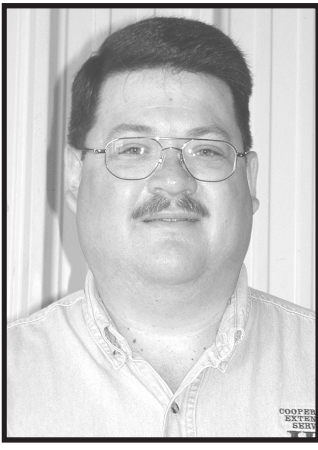


Thin pasture and hayfield grass stands



Eric Baker
Estill County Extension
Agent for Agriculture
& Natural Resources

Extension offices have had a number of calls on hay stands and pastures that appear to be thinner than normal this spring. According to UK forage extension specialists, there are a number of reasons that stands are thin. In this article, we will discuss potential causes and management strategies for thin stands.

What we did last summer and fall can sometimes come back to haunt us the following spring. Close, frequent, and late fall cutting or grazing can result in low energy reserves in the plant. This can cause stands to regrow slower and become thinner overtime. When you combine this with a long and cold winter, grass stands can

struggle to get started in the spring.

Hayfield and pastures need adequate soil fertility to remain strong and vigorous. Soil fertility programs need to be based on a current soil test and ALL required nutrients including lime need to be applied in a timely manner. In hayfields, potassium is often deficient. This is due to the removal of relatively large quantities of potassium compared to phosphorus. Potassium is involved water regulation in the plant, translocation of sugars produced during photosynthesis, disease tolerance, and winter survival. So poor potassium fertility combined with a hard winter can weaken forage stands.

In some years, we just can't seem to warmup in the spring. Cold springs can limit early vegetative growth. Since reproductive growth in cool-season grasses is a function of both day length and temperature, the result is that grass plants will tend to produce a seedhead about the same time each year. In cold springs, this results in a higher seedhead to leaf ratio and ultimately lower yields that have more stem and less leaf.

Applications of lime and

fertilizer should be based on a recent soil test. Maintaining adequate soil fertility at all times allows for the development of strong and vigorous sods. It is important to remember that fertility programs need to be balanced according to soil test results and end use. So if you are making hay, you will need to add back more phosphorus and potassium because it is being removed in the forage tissue. In contrast, nutrient removal from pastures that are being grazed is minimal.

It is very tempting to delay harvest and allow stands to "thicken up" before the first harvest. The presence of the seedhead can actually delay the development of vegetative tillers at the base of the plant by acting as sync for sugars made during photosynthesis and shading vegetative tillers. This can actually slow vegetative regrowth in pastures. In addition, the presence of the seedhead and stem also decreases forage quality. By clipping or harvesting the seedhead and stem, regrowth from the base of the plant can be stimulated and forage quality can be increased.

Combined with a timely first harvest, application of 40-60 lb N/A immediately

after harvest can stimulate regrowth of pastures resulting a leafy second cutting. It also can help to thicken stands and exclude summer weed pressure.

After the second hay cutting or as we get into June in our pastures, rest cool-season grass stands and allow them to go into summer with about 6 inches of regrowth. This will allow pasture plants to accumulate stored carbohydrates that will be used to adapt to the hot and often dry conditions of summer and at the same time buffer the temperatures that plant crowns are exposed to through shading. The best way to rest cool-season pastures during the summer months is to incorporate warm-season grasses into your grazing system. This will provide grazing during summer the months when cool-season pasture growth is limited by high temperatures.

For more information, contact the Estill County Extension Office at 606-723-4557.

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Wishing Well®

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

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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: Y equals E

HGX I YXFKXYUCU ATN AYC Y
 OGUUKNXGQY TNLRYI GMKLNKXGVNU
 AYC Y MNEXV QCIXF QN HGRY G
 MGUQ OELR.

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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.

WJZ WD SMZ VZOS LNDSO
 WD SMZ LWCO QPKZ SW KZ
 NJ SMZ DWIK WD P LWWC,
 DPNSMDAH MWAOZBZZGZI.
 — ZHNXPVZSM QPCT OSPJSWJ

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Puzzle Answers

June 6, 2018

Puzzles4Kids

Answer

BUTTER T BRUTE
 ARCHES H CARES
 SPINAL I PLANS
 BORING R BINGO
 HISSER S HIRES
 MOTIVE T MOVIE

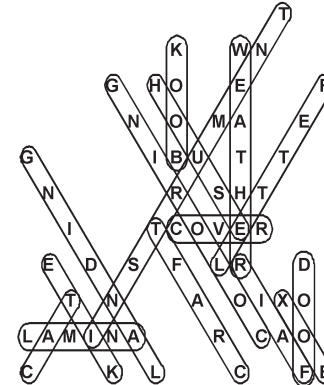
DESERT D TREES
 CARSON A SCORN
 PLAYED Y PLEAD

Letter Box

Solution

B	C	L	P	U	K	R	A	E
R	U	K	E	A	C	L	P	B
P	E	A	R	L	B	U	C	K
A	L	B	U	K	P	E	R	C
U	R	E	A	C	L	B	K	P
K	P	C	B	R	E	A	L	U
E	A	R	K	P	U	C	B	L
C	K	U	L	B	A	P	E	R
L	B	P	C	E	R	K	U	A

CONSECUTIVE TWO-WORD PHRASES



CryptoQuip answer

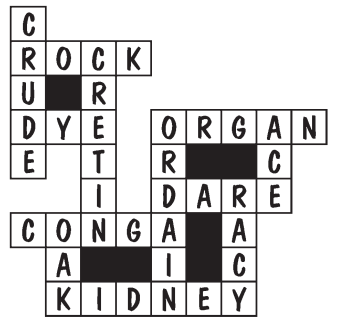
Many engineers who were passionate hockey aficionados were found trying to make a fast puck.

CryptoQuote answer

One of the best gifts of the gods came to me in the form of a good, faithful housekeeper. — Elizabeth Cady Stanton

FEAR & KNIGHT

answer



Even Exchange answers

- Margin, Marvin
- Hanger, Hangar
- Croak, Crook
- Wooden, Woolen
- Motel, Model
- Singe, Since
- Frost, Front
- Rocker, Rocket
- Timer, Tamer
- Carry, Marry

Weekly SUDOKU

Answer

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

King Crossword — Answers

Solution time: 27 mins.

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

Bible Trivia Answers

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

ANSWERS (1) Neither; (2) David; (3) Job; (4) Peace-makers; (5) Esther; (6) Daniel



Detail of woodblock print by Kono Bairai, 1913

The **rose** plant itself is said to be around 35 million years old; it has a very long history as a symbol for love and beauty and for politics and war. Cultivation of roses began some 5,000 years ago, probably in China. During the Roman period, they were used as confetti at celebrations, for medicinal purposes, and as a source of perfume. Roman nobility established large public rose gardens in the south of Rome. — Brenda Weaver

Source: urbanext.illinois.edu/roses/history



Happy Father's Day!

Give your dad the gift of time. Pack a bag with binoculars, a field guide, a sketchpad, some colored pencils and lunch. Scope out your favorite park or go to the beach, lake or river. Create some happy memories with your dad. You'll be grateful you did.

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



Unscramble the letters to come up with a common, everyday 17-letter word ...

Beginning with "I."

I			
I	U	A	D
Z	T	R	I
N	S	L	I
T	O	N	A

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Stickeler's Answer on Page 11

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Farming News

Friday, June 15th @ 6:30pm

Backyard Beekeeping at the Museum

Tammy Horn Potter, Kentucky State Apiarist, will give a presentation on "Backyard Beekeeping" on Friday, June 15, 2018, 6:30 – 8:00 p.m., at the Estill County Historical Museum, 133/135 Broadway in Irvine, Kentucky.

An English professor by training, Tammy Horn Potter decided to help her grandfather with his bees in 1997 and immediately became smitten with them. Balancing her career as an English professor and hobbyist, Potter wrote Bees in America: How the Honey Bee Shaped a Nation which was published by University Press of KY in 2005. Potter followed Bees in America with a second book, Beeconomy: What Women and Bees teach us about Local Trade and Global Markets in 2012. In order to write it, she went to Hawaii during off-seasons from 2006-2010 to work in the queen bee production industry.

In 2014, Potter became the KY State Apiarist. Her primary goals as apiarist are to document hive health, promote economic development, and provide education and outreach. To date, she has partnered on a USDA grant to promote pollinator and cerulean habitat in Eastern KY, a USDA-APHIS Honey Bee Health Survey grant, and implemented a Hive Count/Honey Report system for the state. Tammy has served as president for KY State Beekeepers Association, president of Eastern Apiculture Society, a director on Foundation for the Preservation of Honey Bees, and been awarded the 2010 North American Pollinator Protection Advocate Award as well as the Kentucky State Beekeeping Association Lifetime Achievement Award and KSBA Beekeeper of the Year.