#### The Estill County Tribune, December 30, 2015, Page 9

## **Renovating Hay & Pasture Fields**

nutrient content, resulting is best. A red clover-ladino because grass was allowed in improved animal perfor- clover combination works to grow and reduce the mance. have shown that legumes ing. Ladino clover, red cloimprove animal growth ver and/or annual lespedeza rates, reproductive effi- are good choices for pasciency and milk production. tures. Select certified seed Legumes also add, or "fix," nitrogen in grass pastures in your geographic area. and hayfields.

symbiotic bacteria that live just before planting. Apply a in "knots" on plant roots sticking agent to be sure the and fix nitrogen the grasses inoculant sticks to the seed. and legumes need. Different legumes are able to fix contact with the soil. One of lished, use soil test recomvarying amounts of nitro- the best ways to do this is to mendations as the basis for gen. Alfalfa usually fixes use a no-till drill. Another the most, about 200 pounds method is to use a disk, per acre, while annual les- field cultivator or field tilhayfield, following a few pedeza fixes less, about 75 ler. Tillage helps expose the simple renovation tech- pounds. Legumes make soil so legumes have a betniques could increase the more growth during the ter chance to germinate and field's productivity. Some summer than cool-season grow. When planting clothings you can do include grasses. Growing grasses vers, loosen 40 to 60 percent planting a legume such as and legumes together in- of the sod. For alfalfa seed- needed to remove grass

When renovating grass loosened from the soil. izer. Be aware though, some fields with legumes, have techniques require you to the soil tested and apply the nique is to broadcast legume regularly to discover insect start as early as the middle recommended lime and fer- seed on the soil surface in tilizer. Legumes need high- late winter, generally Feb. Adding legumes to pas- er soil pH and fertility levels 15 to March 15. Soil freezture and hayfields has sev- than grasses. Do not add ni- ing and thawing covers the trogen because it stimulates seed. This method doesn't grasses, increasing competi- work well with alfalfa seed. nitrogen fixation and more tion with legumes. Reduce summer growth. Seeding vegetative cover on the soil weed competition is one of the Cooperative Extension Serlegumes increases the total to make it easier for legume the most critical practices vice serve all people regardless forage yield per acre. One seed to make contact with for successful renovation. of race, color, age, sex, religion, study compared adding red the soil. The best way is to clover to a fescue pasture allow heavy grazing during with fertilizing the grass early winter. You also can with nitrogen. Red clover use herbicides to kill or supgrowing with fescue pro- press grass to help control duced higher yields than competition. Be sure to folfescue fertilized with up to low the herbicide label di-

Select legumes based on

Research studies well for both hay and grazvarieties that perform well Also, be sure to mix a high-Inoculating seed adds quality inoculant with seed

> Be sure seed makes good ing, almost all sod should be seed heads and control

A simple, effective tech-

Controlling grass and Many attempts have failed *disability or national origin*.

light, nutrients and water available to young legume plants. Keep grass short by grazing or mowing until legume plants are 3 to 4 inches tall. Stop grazing and mowing for several weeks so legumes will become well established. Afterwards, mow or graze the field on a schedule to keep legumes in good condition.

Once legumes are estabthe fertility program. Take soil samples every third year to check fertilizer and lime needs. To avoid grass competition, don't use any nitrogen while you have legumes in the field.

Mow pastures when weeds and woody vegetation. Scout renovated fields problems early.

Contact the Estill County Cooperative Extension Service at 723-4557 for additional information on successful pasture renovation.

Educational programs of



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Τ	S	А	В	Μ	Е	Ρ	I	Ν	G	0	0	Ν
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R	D	А	Т	L	Е	S	А	А	Ν	L	0	W
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7	8	6	7	5	3	4	5	7	4	8	2	8
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7	8	7	8	6	2	6	7	6	8	3	8	7
С	F	Е		С	R	L	Μ	А	D	Е	Е	E
3	6	8	7	4	7	3	4	3	6	4	8	4
R	Ι	А	Ν	Μ	Т	Е	А	D	Μ	L	S	L

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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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: D equals O

MNJW CDGJPDYA CFAC "VNEC IJWOEU IDEWV EC GTON VDD CNFKI," MDTUY VNFV PJ F DEWVJY OKEVEOECG?

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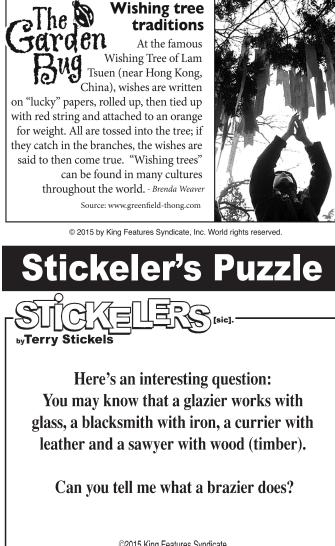




#### **Eric Baker** Estill County Extension Agent for Agriculture & Natural Resources

If you have a less-thanproductive grass pasture or red clover, controlling pests creases summer growth. and adding lime and fertilof February.

eral benefits including higher yields, improved quality, 180 pounds of nitrogen per rections for rates and grazacre. Adding legumes also ing restrictions. improves forage quality, compared to grass alone. the soil and your planned This increases palatabil- use of the forage. For hay, ity, intake, digestibility and alfalfa or red clover usually



#### Stickeler's Answer on Page 11

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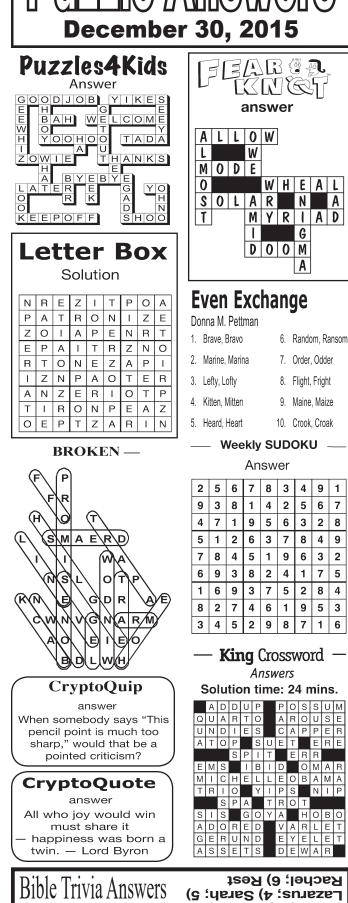
"He refuses to make a house call ... and to think of how we sacrificed to send him to \_\_ \_\_ \_\_ school."

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### SCRAMBLERS

Unscramble the letters within each rectangle to form four ordinary words. Then rearrange the boxed letters to form the mystery word, which will complete the gag!

Secure TABLES	
<sup>Blur</sup> MARES	
Forgo BASTIAN	
Prompt	
	TODAY'S WORD



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

ther; 2) Spears; 3)

-i9N (1) **SABWSNA**