

Eric Baker
Estill County Extension Agent for Agriculture & Natural Resources

Cedar Rust Diseases Active

es begin to appear in spring about the time that flowering crabapples are in bloom and apple buds are in the pink to early bloom stage. These spore horns or spore masses are actually columns of fungal spores (teliospores), each of which can germinate under moist conditions to form four new spores (basidiospores). Basidiospores are then carried to apple, crabapple, hawthorn and other susceptible trees by wind currents where they can germinate and cause infection during relatively short periods of wetness (about six or seven hours for moderate levels of infection when temperatures are in the 50s and 60s). The springtime period of infection usually ends about 30 days after apples bloom when the fungus no longer produces basidiospores on cedars and the majority of alternate host leaf, shoot or fruit tissues have aged to the point where they are no longer susceptible.

Fungicides should be used as protectants to prevent rust pathogens from infecting. After symptoms develop on

apple, it is often too late for control. Early protection of apples, crabapples, and hawthorns (beginning at the pink-bud stage) is especially important for control, as most infections occur within the first 30 days after bloom. Many general purpose fruit tree sprays may not control rusts. Homeowner fungicides available include Immunox and Mancozeb.

For detailed spray recommendations, backyard fruit growers should consult publication ID-21, "Disease

and Insect Control Program for Home Grown Fruit in Kentucky." For landscapes, consult UK Extension publication ID-88, "Woody Plant Disease Control Guide for Kentucky." All three are available through the Cooperative Extension office. For more information, call 723-4557.

Educational programs of the Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability or national origin.



The Garden Bug

Sun-Loving Perennials

- Hens-and-Chicks
- Lamb's Ear
- Miniature Roses
- Artemisia
- Lavender
- Dianthus
- Hibiscus
- Coneflower
- Shasta Daisy

- Brenda Weaver

Source: www.gardeningknowhow.com

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Winners of the recent snowplow obstacle course competition held by Kentucky Department of Highways District 10 at Jackson, were Richard Mazurek, Owsley County, first place, and Robert Riddell, Estill County, second place. Thanks to all of the state and county highway department workers for an excellent job keeping roads safe as possible during the recent bad winter.

With wet and warming spring weather, cedar rust galls are developing on cedar and other Juniper species. As galls swell, they produce spores that threaten apple (and sometimes crabapple and hawthorn). Swelling galls were recently observed on cedar trees in Estill County. These galls indicate that rust pathogens are releasing or preparing to release infective spores. There are three types of cedar rusts that affect apple.

Cedar-apple rust produces large brown galls on cedar and other species of Juniperus. Soon after a rain, galls produce slimy yellow or orange "horns" that are made up of infective spores (basidiospores). These spores immediately infect apple. Upon infection, the disease causes yellowish leaf spots with red rings (called halos). Leaf yellowing and leaf drop follow. Infected fruit develop large spots near the calyx end. These fruit are often stunted and may drop prematurely.

Cedar-quince rust produces orange swellings on twigs. Spores produced in these slimy lesions affect apple fruit, but not leaves. Infection of blooms and young fruit occurs early in the season, but symptoms do not develop until fruit mature. Diseased fruit are puckered and have spongy lesions at the calyx end.

Cedar-hawthorn rust forms galls similar to cedar-apple rust, only smaller. Spores produced from short "horns" infect apple, crabapple, and hawthorn. Leaf spots on apple appear similar to those caused by apple cedar rust, and can cause defoliation. Fruit infection is not common.

All three fungi have similar life cycles. From dormant galls and swellings, orange spore "horns" or spore mass-

Wishing Well®

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

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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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.

BH CQI UVK'D WJD PBG QH

DZJ HVOBEC XTJEJDQK, CQI

OVC VX FJEE OVTJ BD

GVKUJ. - W.N. XZVF

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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: E equals U

DM O ZGUIW SUBLCLIVLIK OSLIK

FLXOVL BLCW XUISLYKLJ, D

FLADLBL GL XUEAJ EYL YUVL

ZYLEJU-MLJ.

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Puzzle Answers

June 11, 2014

Puzzles4Kids

Answer

What do you get if you cross a skunk and a porcupine?

A very lonely animal.

FEAR & KNIGHT

answer

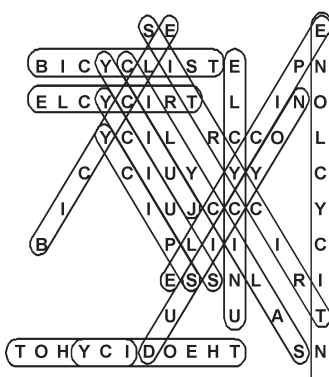


Letter Box

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

ICY WORDS



CryptoQuip

answer

If a phony government agent became very congested, I believe he could use some pseudo-Fed.

CryptoQuote

answer

If you can't get rid of the family skeleton, you may as well make it dance. - G.B. Shaw

Even Exchange

answers

1. Outwit, Outfit
2. Shell, Swell
3. Party, Patty
4. Batter, Bitter
5. Worry, Sorry
6. Scrub, Shrub
7. Career, Caren
8. Pierce, Pierre
9. Brake, Broke
10. Warble, Marble

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 25 mins.

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

Rabies Clinic

Saturday, June 14, 2014

9am - 3:30pm

at the Animal Clinic

1995 Richmond Road, Irvine

Dr. Linda Grimes, Veterinarian

Sponsored by Estill Co. Health Dept.

(606) 723-5181 or (606) 723-4159

Stickeler's Answer

Stickelers Answer

- HANGAR
- HANGER
- RANGER
- RANGED
- RANKED
- RACKED
- ROCKED

Stickeler's Puzzle on Page 11

FARM SERVICE AGENCY AGRICULTURE NEWS

Richmond FSA Service Center
1024 Ival James Blvd., Ste A-2
Call 888-758-6909

FSA County Cmt. Nominations

The nomination period for local Farm Service Agency (FSA) county committees begins Sunday, June 15, 2014.

To be eligible to serve on an FSA county committee, a person must participate or cooperate in a program administered by FSA, be eligible to vote in a county committee election and reside in the local administrative area where the person is nominated.

Farmers and ranchers may nominate themselves or others. Organizations representing minorities and women also may nominate candidates. To become a candidate, an eligible individual must sign the nomination form, FSA-669A. The form and other information about FSA county committee elections are available at www.fsa.usda.gov/elections. Nomination forms for the 2014 election must be postmarked or received in the local USDA Service Center by close of business on Aug. 1, 2014. Elections will take place this fall.

While FSA county committees do not approve or deny farm ownership or operating loans, they make decisions on disaster and conservation programs, emergency programs, commodity price support loan programs and other agricultural issues. Members serve three-year terms. Nationwide, there are about 7,800 farmers and ranchers serving on FSA county committees. Committees consist of three to 11 members that are elected by eligible producers.

FSA will mail ballots to eligible voters beginning Nov. 3, 2014. Ballots are due back to the Madison/Estill Farm Service Agency located at 1024 Ival James Blvd., Ste A-2 Richmond, either via mail or in person by Dec. 1, 2014. Newly elected committee members and alternates take office on Jan. 1, 2015.

USDA is an equal opportunity provider, employer and lender.

Bible Trivia Answers

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

ANSWERS: (1) Neither; (2) Job
Death (5) Build up; (6) Sarah
(3) Stringed Instruments; (4)