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Soybean Harvest and Seed Quality Issues

loads of harvested seed may be docked due to "damaged" seed. Of the two diseases, Phomopsis seed decay generally causes the greatest reduction in seed germination.

The primary reason why Phomopsis seed decay and purple seed stain is so prevalent this year is so the weather that has occurred since soybeans have been at physiological maturity. Areas in the state that have received frequent rainfall since soybeans have been mature have been hit the hardest with seed disease problems. Along with wet weather, the very warm temperatures that the state was experiencing up until a several weeks ago also helped promote infection by these fungi. The Phomopsis seed decay pathogen is best able to infect seeds after physiological maturity, and the longer that soybeans sit in the field in wet and warm conditions after they are mature, the greater the likelihood of Phomopsis seed decay problems.

Harvesting soybeans as soon as possible after physiological maturity and at optimal seed moisture is the primary way to avoid problems with Phomopsis seed

decay and purple seed stain; however, when rainy conditions prevail, seeds take longer to dry down, and harvest becomes delayed. Planting soybean varieties with relative maturity ratings that match your region and your farming operation also may help with a timely harvest. Since these seed pathogens survive in soybean debris, rotating fields with a non-legume crop may help reduce inoculum levels in the field. Since these pathogens also survive on seed, planting bin-run seed may help perpetuate the problem in a field by continually introducing the pathogen back into the field. Although soybean germplasm lines have been identified with resistance to Phomopsis seed decay, no commercial soybean varieties are marketed as having resistance to this disease, and soybean breeding programs may not intentionally screen their lines for resistance to Phomopsis seed decay.

When applied at later growth stages, such as R5 (beginning seed stage), foliar fungicides have been shown to inconsistently reduce Phomopsis seed decay in research trials. Unfortunately, even when reductions in

Phomopsis seed decay have occurred with late-applied fungicides, oftentimes the magnitude of the reduction would not have been enough to prevent levels of disease that would still be discounted at the grain elevator. Overall, the wet and warm harvest season that part of the state experienced was likely so favorable for infection and disease development, that there was little that could have been done to avoid some losses due to these diseases this year.

Contact the Estill County Extension office at 723-4557 for more information. Educational programs of the Cooperative Extension Service serve all people regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identity, gender expressions, pregnancy, marital status, genetic information, age, veteran status, or physical or mental disability.

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Although soybean yields have been pretty good this year, the seed quality of harvested soybeans has not been great in our area of the state. Seed diseases have been prevalent in areas that have received a lot of rain since harvest season began. Phomopsis seed decay and purple seed stain are the two main culprits of poor quality seed.

According to UK Extension Plant Pathologist Carl Bradley, seeds affected by Phomopsis seed decay may appear shriveled, misshapen, and/or chalky white in color. As the name suggests, seeds affected by purple seed stain will be discolored with purple blotches, or the entire seed may be purple in color. The largest economic losses associated with these diseases to farmers occur at the grain elevator, when

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

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: R equals H

KRUK CJZ LHDNO'K DUK ODUQSZ

UN EJTR QHJCRUCD UN RD

TSUBEN. RD'N LDGBOBKDSZ U

GBFDQ GBFFDQ.

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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.

EAC EFKW KQH HF RSII

EAQE KACW EAC EDRC KCWE

FSE, DE PCJSHCR EF GFUC

NQGL. — JPCR QICW

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Stickeler's Puzzle



by Terry Stickels

Test your knowledge with these trivia questions ...

1. Tom Hanks won back-to-back Oscars for which films?
2. What king did William the Conqueror defeat at the Battle of Hastings in 1066?
3. What two football teams played in the first Super Bowl?
4. How many faces does an icosahedron have?
5. Who was the last czar of Russia?

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Stickeler's Answer on Page 11

Turkey Fun Facts

The Kentucky Department of Fish & Wildlife estimates our state's wild turkey population at 330,000-440,000 birds. It is amazing to see a flock of wild turkeys walking through our Extension office lawn. It is interesting that there are only two species of wild turkeys in the world - the North American and the Ocellated. All the domestic 'breeds' of turkeys originated from the North American wild turkey. The Ocellated turkey is native to the Yucatan Peninsula in Mexico and has colorful markings. The turkey is the only type of poultry that was domesticated from wild stocks native to North America. All other domestic poultry originated in other countries and were later brought to the United States. (Source: <https://afs.ca.uky.edu/poultry/variety-selection-turkeys>) The Estill County Extension office will be closed November 22-23 for the holiday. We wish everyone a safe and happy Thanksgiving!



Gift Ideas

Give a little sunshine to the bird lover in your life. Consider these bird-themed items: coloring books, T-shirts, wall calendars, pocket planners, journals, sketch books, note cards, coffee mugs, jewelry, fun plastic plates, tote bags, field guides, binoculars and on and on. Be creative. Enjoy the holiday season!

E-mail: birdingbits@cflrr.com
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Cutting back perennials

Cut back perennial plants to about 6 inches' height after a hard frost. Remove any dead leaves lying nearby. This lessens the harboring of disease and pests that could affect new growth next spring. Perennials include hosta, bee balm, phlox, bearded iris, peony, daylily, veronica, sunflower, salvia, shasta daisy, clematis, columbine, catmint, and yarrow.



Yarrow

Source: www.almanac.com

- Brenda Weaver

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Puzzles4Kids

Answer

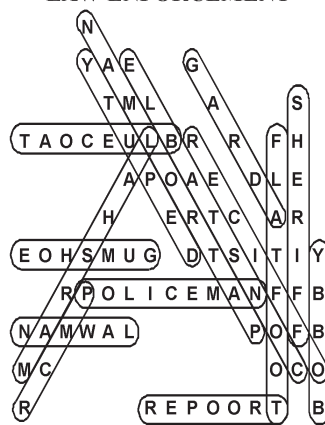


Letter Box

Solution

R	A	C	S	F	O	N	I	T
N	S	O	T	I	A	F	R	C
T	I	F	N	R	C	S	O	A
I	N	T	F	O	S	C	A	R
C	O	S	R	A	N	T	I	F
F	R	A	C	T	I	O	N	S
A	T	I	O	S	F	R	C	N
O	C	R	A	N	T	I	S	F
S	F	N	I	C	R	A	T	O

LAW ENFORCEMENT



CryptoQuip

answer

That guy doesn't eat nearly as much roughage as he claims. He's definitely a fiber fibber.

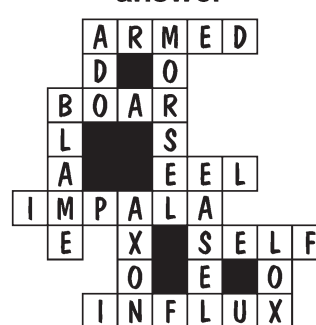
CryptoQuote

answer

The town was so dull that when the tide went out, it refused to come back. — Fred Allen



answer



Even Exchange

answers

1. Foster, Faster
2. Bacon, Baton
3. Limbs, Limbo
4. Athena, Athens
5. Cattle, Castle
6. Orate, Irate
7. Divine, Divide
8. Allen, Alien
9. Peach, Poach
10. Branch, Brunch

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 25 mins.



Bible Trivia Answers

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

ANSWER: (1) Psalms; (2) Un- (4) Will; (5) At your own will; thankful people; (3) Mercy;