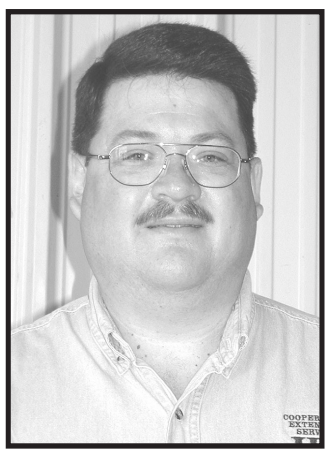
# Thrips are Abundant This Year



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

According to UK Entomologist Ric Bessin, there have been several reports of high thrips populations attacking crops and bothering homeowners alike this spring. Despite their tiny size, various thrips species are serious direct pests in greenhouses/high tunnels as well. Thrips are also vectors of Tosopviruses, such as tomato spotted wilt virus. Gardeners and commercial growers are encouraged to monitor for thrips, along with symptoms of the viruses they might transmit. Pay particular attention to susceptible crops, such as tomatoes and peppers grown in high tunnels, as well as these same crops and other vegetable crops in production fields.

Most adult thrips are elongate, slender, minute (less than 1/20 inch long), and have long fringes on the margins of both pairs of their long, narrow wings. Immatures (called larvae or nymphs) are oblong or slender and elongate and lack wings. Most thrips range in color from translucent white or yellowish to dark brown or black often infest developing buds of plants. As new growth emerges from buds, it may be twisted or deformed due to thrips feeding. In greenhouses, it is common to find brown spots caused by thrips feeding on leaves of vegetable crops. Often there is black fecal matter in association with these feeding sites. Because thrips are so small and often hidden in flowers or plant buds, growers scouting for thrips can tap plant parts over a sheet of white paper or into a white cup in order to see them.

Insecticides are used to reduce thrips numbers when they are abundant, but producers need to be careful to select insecticides that have good thrips activity. For commercial vegetable crops, some choices are Radiant, Sivanto Prime, Torac, Rimon, Venom, Assail, Admire, pyrethroid insecticides, Dimethoate, and Lannate can provide good to very good control of thrips; however, these individual products are not labeled on all vegetable crops and some cannot be used in greenhouses/high tunnels. Read the label before selecting and using a pesticide.

An organic option is Spinosad (gardeners can use Captain Jack's Deadbug Brew which is spinosad) which lasts a week or more and moves short distances into sprayed tissue to reach thrips feeding in protected plant parts. Sinosad is an insecticide is a fermentation product of a naturally occurring bacterium, and certain formulations are organically acceptable. Spinosad can be toxic to certain natural enemies and bees so follow the label recommendations.

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

## Aquaponics programs offered

The Kentucky Cooperative Extension Service is hosting two free programs for individuals interested in aquaponics in July.

The first program is a workshop on July 20 that will provide basic information about aquaponics, a system in which fish and plants are grown together in a mutually beneficial environment. The event will begin at 8 a.m. EDT at KSU Aquaculture Research Center located at 103 Athletic Road in Frankfort. Participants will travel to Bluegrass Aquaponics in Versailles in the morning and return to the center in the afternoon for classroom sessions. Sessions will cover basic aquaponics, system and design, water quality and business planning. Transportation to Bluegrass Aquaponics will be provided. Lunch and refreshments are also provided.

Saturday, July 21, extension specialists will host a free, hands-on workshop for those interested in starting their own backyard aquaponics system. The workshop begins at 8 a.m. at the KSU Aquaculture Research Center.

During this workshop, participants will build their own aquaponics system. Building materials are provided. Attendees should have a serious interest in operating a backyard system, have basic aquaponics knowledge and have a way to take the system home. The system measures 4 feet by 4 feet and weighs about 120 pounds. Participants should wear work boots, hats and long sleeves to this workshop.

Registration for the Friday workshop is limited to 50 people. Saturday's workshop has a registration limit of 10. Register for the Friday program online at http://www.ksuaquaculture.org. Saturday's registration is available at https://s.surveyplanet.com/BktvUExb7. Interested individuals can also contact Kathryn Mitchell at 502-597-6140 or kathryn.mitchell@kysu.edu to register.

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.

## Wishing Well®

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 4 | 5 | 4 | 5 | 7 | 6 | 5 | 7 | 6 | 4 | 7 | 4 |
| N | Y | O | O | T | E | C | E | N | L | U | J | E |
| 5 | 7 | 3 | 8 | 2 | 5 | 3 | 5 | 2 | 4 | 2 | 6 | 5 |
| M | O | L | B | B | P | E | T | E | X | D | E | A |
| 8 | 2 | 3 | 7 | 3 | 4 | 2 | 4 | 5 | 3 | 2 | 4 | 5 |
| E | I | A | Y | R | T | S | E | T | N | C | N | I |
| 3 | 2 | 4 | 5 | 4 | 5 | 3 | 7 | 4 | 7 | 5 | 8 | 3 |
| N | I | D | O | H | N | E | P | E | L | S | I | W |
| 4 | 7 | 8 | 2 | 3 | 4 | 8 | 7 | 3 | 2 | 7 | 2 | 3 |
| L | E | N | P | S | P | D | A | K | L | S | I | I |
| 8 | 2 | 3 | 6 | 8 | 6 | 3 | 2 | 8 | 7 | 8 | 2 | 8 |
| E | N | L | V | P | E | L | E | E | U | N | D | D |
| 7 | 6 | 7 | 6 | 8 | 7 | 6 | 8 | 6 | 3 | 8 | 6 | 6 |
| R | R | E | I | E | S | D | N | E | S | T | A | 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.

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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: **U** equals **T**

B LDTDQUAC LDFX F RVUUV UIFU F ABEIUBQE YUVLD IFX WDDQ NYBQE: "UID TNYUVRDL BY FAJFCY WLBEIU."

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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.

ABVD TPW SBKDF PL QUU SBV UPDVUT IVPIUV AKSBPWS ZVUQSKOVM PZ DVKEBRPZM, TPW HVZSQKDUT VDOT SBVC. — MPWZHV WDFDPAD

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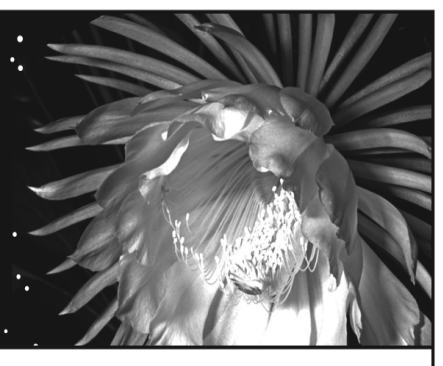
## The Garden Bug

### Night-blooming cereus



These plants are members of the cactus family. Only if you live in the frost-free southern states can you grow them in the ground; they like to be potted. Use a well-draining soil mixture and water sparingly, keeping the pot in a sunny area. They may take a few years to begin blooming, and then each flower only lasts one night, but they are very striking.

Sources: www.southernliving.com, www.worleys.com — *Brenda Weaver*

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## Birding BITS by Cindy Brook

### *Quick ID*

Sometimes we only get a few seconds to ID a new bird. Try to zero in on distinctive marks to aid your search. Is the tail cocked like a Carolina wren? Is it bright red like a male cardinal? Does it have a black cap like the male American goldfinch? Good luck!

*E-mail: birdingbits@cfl.rr.com*

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## Stickeler's Puzzle

STICKELERS [sic]. by Terry Stickels

**Here's a "trickledown" puzzle. The rules are simple; you merely change one letter on each line to make a new word and continue until you reach the final word.**

TWICE
_____
_____
_____
_____
STUNG

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**Stickeler's Answer on Page 11**

## Americanisms

"[Independence Day] ought to be solemnized with pomp and parade, with shows, games, sports, guns, bells, bonfires and illuminations, from one end of this continent to the other."
—*John Adams*

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# Puzzle Answers

**June 27, 2018**

## Puzzles4Kids

Answer

How do elephants talk to each other long distance?

On the elephone.

## Fear Knot

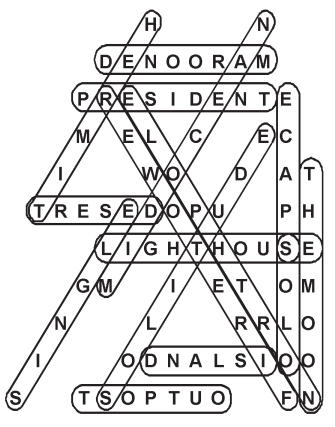
answer

## Letter Box

Solution

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| E | T | Y | H | V | O | M | I | R |
| I | M | V | E | R | Y | H | O | T |
| O | H | R | M | T | I | V | Y | E |
| R | Y | I | O | H | M | T | E | V |
| V | O | T | I | E | R | Y | H | M |
| M | E | H | V | Y | T | I | R | O |
| Y | I | O | R | M | V | E | T | H |
| T | V | E | Y | O | H | R | M | I |
| H | R | M | T | I | E | O | V | Y |

LONELY



## Even Exchange

answers

1. Roster, Poster
2. Freed, Fried
3. Starch, Search
4. Green, Greek
5. Cover, Cower
6. Quiet, Quilt
7. Tamper, Temper
8. Menus, Minus
9. Repent, Resent
10. Masked, Mashed

## Weekly SUDOKU

Answer

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

## King Crossword

*Answers*

**Solution time: 21 mins.**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C | G | I | ■ | ■ | A | T | M | ■ | J | O | W | L |
| H | A | D | J | ■ | W | H | Y | ■ | A | W | E | S |
| O | L | L | A | ■ | N | O | R | ■ | N | E | E | D |
| W | A | Y | N | E | ■ | U | R | D | U | ■ | ■ | ■ |
| ■ | ■ | ■ | U | R | N | ■ | H | E | A | R | T | S |
| B | E | L | A | R | U | S | ■ | C | R | O | A | T |
| A | C | E | R | ■ | T | O | T | ■ | Y | U | L | E |
| T | R | A | Y | S | ■ | S | U | B | J | E | C | T |
| H | U | F | F | E | D | ■ | B | O | O | ■ | ■ | ■ |
| ■ | ■ | ■ | I | T | E | M | ■ | A | N | T | I | C |
| S | T | A | R | ■ | B | U | D | ■ | E | A | R | L |
| E | E | L | S | ■ | I | C | Y | ■ | S | T | O | A |
| W | E | L | T | ■ | T | H | E | ■ | ■ | E | N | D |

## CryptoQuip

answer

I recently read a motto that a lighting store had been using: "The customer is always bright."

## CryptoQuote

answer

When you think of all the lonely people without relatives or neighbors, you certainly envy them.
— Source unknown

## Bible Trivia Answers

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

**ANSWERS** 1) Old; 2) Read to; 3) 1st; 4) Tabitha; 5) John the Baptist; 6) Roman