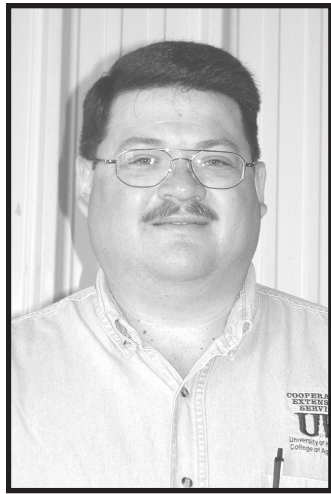


Sugarcane Aphid Impacting Sweet Sorghum



Eric Baker
Estill County Extension
Agent for Agriculture
& Natural Resources

This pest is sometimes referred to as the "white" sugarcane aphid. Wingless sugarcane aphids have a pale yellow to whitish coloration and dark cornicles, the "stove pipe" structures located at their rear end. The winged, or "alate," sugarcane aphids that first migrate into fields are darker in coloration. Sugarcane aphids give birth to live young rather than laying eggs and can reproduce without mating. They can multiply quite rapidly, covering the undersides of leaves before they move to other parts of the plant. Often the first sign that aphids are in a field is the presence of sticky honeydew, the sugary excrement of the aphids, on leaf surfaces, as well as yellow to reddish-brown leaf discoloration. Black sooty mold sometimes grows in the honeydew which reduces leaf photosynthesis.

In early September the Environmental Protection Agency (EPA) granted an emergency exemption for use of Transform to control sugarcane aphid on sorghum used for grain and fodder; however this exemption for Transform does not permit use on sweet sorghum. Sivanto is the other insecticide that is labeled and effective against sugarcane aphid on sorghum, but as with Transform, it cannot be used on sweet sorghum. Last month the EPA lost a court decision regarding the labeling of sulfoxaflor, the active ingredient in Transform and Closer. Soon we will learn of impact of this decision on the use of sulfoxaflor. Lorsban, dimethoate, and Malathion are labeled for controlling aphids on sorghum, but they are not as effective as Transform or Sivanto. Currently we have no conventional insecticides that are labeled for use on sweet sorghum other than Intrepid, which is only effective against caterpillars. The only organic insecticides labeled for control of aphids on sweet sorghum are the neem-seed based azadirachtin insecticides.

While the sugarcane aphid has complicated the production of grain sorghum (milo) in Kentucky since its detection in late August, it has also destroyed sweet sorghum in many Kentucky counties. Since the first detection of this new invasive aphid on grain sorghum in August in western Kentucky, there have been reports of sweet sorghum lost to this pest in five counties. It has been detected as far east as Casey and Garrard Counties. Growers are reporting that large aphid populations have resulted in lower sugar levels in the juice, less juice, killed stalks, and off-flavors in the syrup.

The reason for the limited number of insecticides most likely has to do with how sweet sorghum is processed. It is crushed for the juice, and the juice is boiled down for syrup with 8 gallons of juice yielding 1 gallon of syrup. Companies with interest in labeling pesticides for sweet sorghum would need to conduct the residue trials on the syrup as part of the registration process. The IR-4 Minor Use Program will begin the process this coming summer to conduct the needed residue studies to expand the Sivanto label to include sweet sorghum. This process typically takes 3 or more years to result in labeling expansion. (Source: Ric Bessin, UK Entomology).

UK COOPERATIVE EXTENSION SERVICE

University of Kentucky - College of Agriculture

Estill County
4-H Youth Development
Isaac L. Hollon
Estill County Extension Office

4-H Teen Club Yard Sale Fundraiser
Estill County 4-H Teen Club is having a yard sale on Saturday, November 7th, 8 a.m. to 12 noon at the Extension Office, 76 Golden Court (old Headstart Building off Stacy Ln). Proceeds will go to Relay for Life and the 4-H Teen Club.
Do you have items that you would like to donate? All gently used items are appreciated with the exception of old computers & monitors and non-functioning electronics. If you would like to donate, call the Extension Office at 606-723-4557 to make arrangements to drop off your donation.

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Mechanical Work
Main Street in Ravenna
Call 606-975-3796

The Garden Bug
Drying gourds

- Clean gourds with soapy water and air dry; hang them in a dark area, making sure they do not touch, for about 6 months.
- Discard any that decay, shrivel or get soft. If mold appears, wipe it with a cloth dipped in bleach.
- When the gourds become light, solidly hard and you hear the seeds rattling inside when you shake them, they can be carved or painted.

— Brenda Weaver
Source: gardening.about.com

Stickeler's Puzzle

STICKELERS [sic].
by Terry Stickels

Suppose you have a 24-hour clock where the minute digits are always the same as the hour digits. The clock only can display times like 09:09, 17:17, 05:05, 21:21, etc.

What is the smallest time difference between two of these consecutive digital times?

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Stickeler's Answer on Page 11

WEBB RENTAL
721 River Drive, Irvine, KY 40336
606-726-9584
Black Wireless Authorized Dealer
Switch to Black Wireless Now and Save \$\$
Unlimited Talk & Text -- 500MB Data
30 Days - 30 Bucks
*Other plans available!
No Contracts! No Credit Check! No Hidden Fees!
Same Day Activation! New Phones In Stock Now!
STORAGE & APARTMENT RENTAL
Come In & Check Us Out!

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NATIONWIDE COVERAGE
LARGEST GSM NETWORK

WORKS WITH ANY UNLOCKED GSM PHONE

\$30
UNLIMITED
TALK, TEXT, MMS
500MB DATA

New Phones Arriving Daily

Wishing Well®

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

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: X equals G

EJYQV YNQ GHHL NEU E
AODNER TNOIQ AELOWX EW
HAQIQY, DNQ THFWU FR TOYN
QXX HW NQV JEGQ.

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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.

XWCGPAG GBP QFWYJ: GBP
YCOP QWFMVJ XPZAP ZMY
GBP JGCWR QWFMVJ GZK
PKPHXGFCMJ.
— JCSWAP SMRMCIM

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Puzzle Answers

October 28, 2015

Puzzles4Kids
Answer

FOSTER	F	STORE
CROAKS	O	RACKS
GRUNTS	R	STUNG
TEMPOS	T	MOPES
BURIED	U	BRIDE
HANSEL	N	HEALS
DANGER	E	GRAND
SNITCH	C	HINTS
RIOTED	O	TRIED
HOARSE	O	HEARS
BASKET	K	BEAST
PHRASE	I	TRIPS
SACHET	E	HARPS
	S	CHEAT

FEAR & KNIGHT
answer

O	W	L	I	S	H	
L	I	L				
E	D	E	N	A		
		E	Y	A	P	
D	A	N		L		
	L	S	A	P	I	D
L	P	I				
O	E	N				
Y	A	W	N	E	D	

Letter Box
Solution

E	L	O	U	N	G	D	T	I
G	N	I	T	E	D	O	L	U
U	D	T	L	O	I	N	E	G
O	T	D	E	G	U	I	N	L
N	U	G	I	T	L	E	O	D
I	E	L	N	D	O	G	U	T
T	G	E	D	U	N	L	I	O
L	O	N	G	I	T	U	D	E
D	I	U	O	L	E	T	G	N

Even Exchange
Donna M. Pettman

1. Poise, Posse	6. Hunter, Hunger
2. Marvin, Martin	7. Wendy, Windy
3. Salon, Talon	8. Vanity, Sanity
4. Proper, Propel	9. Cello, Cells
5. Towel, Tower	10. Formal, Format

CHAIR

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

Weekly SUDOKU
Answer

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

CryptoQuip
answer
After the cook had a mishap while making an omelet, she wound up with egg on her face.

King Crossword
Answers
Solution time: 25 mins.

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

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

ANSWERS (1) New:
1) David; 2) Joseph; 3) Joseph; 4) Haman; 5) Joshua; 6) Files