# **Tomato Diseases in the Home Garden**



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

Garden plants are thriving right now and tomato diseases will increase too. There are several types of garden tomato diseases that you may encounter this season and this article will control options.

Leaf Spot diseases are widebeen favored by the rain and brown, somewhat targetas curled, brown dead folithe end result is the same,

size. These two diseases Home garden fungicides cial tomatoes, but less comcan be prevented by appli- containing chlorothalonil or monlyin homegarden tomaing chlorothalonil (Ortho prevent fruit rots cause by Garden Disease Control, these two fungi. Daconil, Bonide Fungonil benefit is achieved if one the trees have been cut mottling and mosaic sympwaits until strong activity down. A brown staining exists before starting spray of the xylem tissues in the programs.

Rot is not can be avoided ing of the xylem may occur TMV occurs in the home with adequate supply of when Fusarium wilt, Vertisoil moisture and adequate cillium wilt, and even with of saving tomato seeds from calcium levels (use of cal- root-knot nematode. Use tomatoes harvested one cium chloride foliar sprays of the VFN tomato varieties may assist as well). There will prevent the latter three summarize the diseases and is some Buckeye Rot which diseases. causes dark brown to black **Fungal Leaf Spots:** Both areas to develop on the fruit al Spot and Bacterial Speck with great color photos of Early Blight and Septoria surface followed by decay. can occur in home gardens. Unlike Blossom-end Rot, In some cases, the microbe spread. The diseases have the blackened area is not causing bacterial spot may sunken, and it may appear have been splashed to toleaf wetness we have had so anywhere on the fruit, but matoes in the garden from Pests of Solanaceous Crops far this summer. Early blight usually on that part touch- infected pepper transplants in KY. Contact us for a free is characterized by the ing the soil or closest to the bought at a garden store. ground. Mulch can be used Bacterial Spot appears as shaped leaf spots, often be- to reduce exposure of the dark, somewhat angular coming a half-inch or more fruits to the soilborne fun- moist-looking spots on across. As the lesions come gus and will also help re- leaves and fruits. Diseasetogether, the leaves turn yel- duce the occurrence of blos- control chemicals containlow, become blighted and som-end rot. The Late Blight ing fixed copper may help may hang from the plant fungus can also cause black- suppress this disease, but ened areas of the fruit, but copper-containing chemiage. For Septoria Leaf Spot, may be rough and sunken cals are only partly effective at the margins compared to and can damage the plant. but the spots are tan, fairly Buckeye Rot. Late Blight also Follow label directions. circular, and usually remain attacks the foliage, blighting

under one fourth-inch in leaves, petioles and stems. Canker occurs in commer-

fixed copper sprays (Bonide due to exposure to the toxin, Liquid Copper, Ortho El- juglone, produced usually ementals Garden Disease by the roots of walnut trees Control), all available at gar- growing near the garden. den centers (read product The toxin can even be prolabels and note pre-harvest duced by roots decomposintervals). However, little ing in the garden soil after **saic Virus (TMV)** can cause stem can be seen when cut Fruit Rots: Blossom-end open. A similar dark stain-

Bacterial Spots: Bacteri-

**Stem Cankers:** Bacterial

cation of fungicides contain- fixed copper can be used to toes. Look for brown lesions on petioles and stems and wilting and drying of foliage **Wilt Diseases:** Walnut associated with the cankers. Multipurpose Fungicide) or Wilt affects whole plants The Early Blight fungus also causes brown lesions on leaf petioles and stems, and as is seen on the leaves, the typical concentric texture of the lesion should be visible.

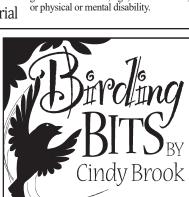
Mosaic: Tomato Motoms and somewhat deformed growth of the leaves and uneven ripening and gray wall of the fruit. Where garden, look at the practice season and planted the next as a possible practice which perpetuates the disease.

A very good publication tomato, pepper, and potato pest problems is UK Extension publication ID-172. An IPM Guide for Common сору.

For vegetable and other plant disease identification and control options, contact the Estill County Extension Office at 606-723-4557.

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Happy Hummers A simple sugar solution is 4

-	W	i	s h	i	n	g		A 583	W	e e	11	®
5	2	8	5	6	5	4	6	5	4	6	2	4
Α	Ν	L	D	Α	D	L	Ν	R		Α	0	F
3	5	6	5	2	4	8	3	6	5	3	2	4
W	Е	Т	S	В	Е	0	А	Т	S	Ν	0	
5	3	8	6	4	5	2	3	5	6	8	6	4
0	Т	V	R	S	L	U	Ν	D	А	Е	С	P
5	3	7	6	3	7	4	6	3	6	2	4	6
Ρ	0	Α	Т	Μ	S	Е		0	V	Ν	Α	E
4	6	2	5	2	6	5	4	3	7	3	6	8
С	I	D	R	S	D	0	Е	R	U	Е	Е	0
7	4	7	4	6	2	8	4	2	8	7	5	2
Ν	F	Ν	U	А	F	F	L	0	Н	Υ	В	R
8	2	5	8	2	5	8	7	5	7	5	2	7
0	Υ	L	Μ	0	Е	Е	D	Μ	А	S	U	Υ

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: O equals M

CY S KGSISDG PRSBTP DR HDZP DY BISBTFIP CR NFJ, ECHH EF FRJ WK ECZG S BIWONM OWOOM?

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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.

RDTRKD PUO WD FLPA N QT FNMADI FLDM ALDID'U MT NM JPUDJPKK. N'KK ADKK VTY FLPA N QT. N UAPID TYA ALD FNMQTF PMQ FPNA CTI URINMS. ITSDIU LTIMUJV ©2020 King Features Synd., Inc.



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# **Stickeler's Answer**

# **Stickelers Answer**

The word is "topographically."

## **Stickeler's Puzzle on Page 4**

# **Puzzle Answers**

**BIBLE WORD SEARCH** Answers ALSJIMTA O V N A T M H W 0 VFOREHBEC Е T W M E A H C I H X H L T Y A M OYZXF ΕΟΡ S NOYREVE EDW ΟZ V х S LETBLGO

with a crumby mummy? crackers in bed, will we end up It a pharaoh snacks on lots of answer CryptoQuip Bogers Hornsby window and wait for spring. what I do. I stare out the paseball. I'll tell you in winter when there's no People ask me what I do answer

CryptoQuote Bible Word Search on Page 4



parts water to 1 part pure white sugar. Boil. Let cool. Pour into a red hummingbird feeder. No red dye is needed. To keep wasps and bees off your feeder, remove any yellow parts, since bees and wasps love the color yellow.

> E-mail: birdingbits@cfl.rr.com © 2014 King Features Syndicate, Inc.

## **Drawing cancelled Estill County Lions Club**

Mechanical Work

**Main Street in Ravenna** 

Call 606-975-3796

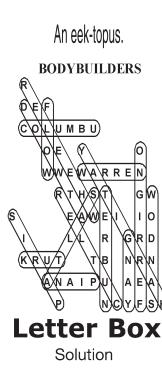
The 2020 Mountain the drawing at the end of Mushroom Festival Li- the 2021 Mushroom Fesons \$500 Walmart card tival. drawing had to be canceled due to COVID 19.

If you had already and leave a message. purchased a ticket, your Your call will be returned. ticket will be included in Thank you. ECLC

If you have further questions, call 723-4023

NEAL'S STEREO SHOP 975-3796 (606)**River Drive & Main in Ravenna** NEAL'S AUTO **CENTER & BODY SHOP** 

What do you get if you cross a mouse and a squid?



Puzzles4Kids

Answer

R	Т	0	М	А	Ν	Κ	G	Е
Е	М	А	G	Κ	Т	R	0	Ν
Κ	G	Ν	R	Е	0	А	Т	Μ
G	R	Е	А	Т	Μ	0	Ν	Κ
0	Ν	Κ	Е	R	G	Т	М	А
М	А	Т	Ν	0	Κ	Е	R	G
Т	Е	G	Κ	Ν	R	М	А	0
Ν	Κ	R	0	М	А	G	Е	Т
А	0	М	Т	G	Е	Ν	κ	R

answer												
		Ρ	L	Α	S	Μ	A					
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D 0	M	1	N	0			Μ					
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	Ν	A	Y		М	0	D					
NE	E	D				Α						
	Y	0	N	D	E	R						
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FEARCA

## Even Exchange

	answei	5	
1.	Castle, Cattle	6.	Lodger, Ledger
2.	Swing, Sting	7.	Pinch, Pitch
3.	Bonnet, Sonnet	8.	Waist, Wrist
4.	Rhine, Rhone	9.	Tater, Tamer
5.	Saute, Sauce	10.	Andrea, Andrew
	– <b>King</b> Cro	DSS	word —

Answers Solution time: 21 mins.

0	Ρ	Е	С		А	S	Ι	А		D	Ν	А
L	0	L	L		Ι	0	Ν	S		Е	0	Ν
D	Е	F	Е	Ν	D	А	Ν	Т		F	U	Ν
			R	Е	Е	Κ		R	Н	0	Ν	Е
L	0	D	G	Е			۷	Τ	0	L		
0	В	Е	Υ		Т	R	А	D	Е	Τ	Ν	S
S	0	S		Q	U	0	Т	Е		А	U	Κ
S	Е	Ι	Ζ	U	R	Е	S		0	Ν	L	Υ
		С	0	0	Κ			Т	Ξ	Т	L	Е
В	А	С	0	Ν		Ρ	0	0	L			
Α	Κ	А		D	Е	0	D	0	R	А	Ν	Т
В	Ι	Ν		А	G	Е	D		Τ	R	0	Ν
Α	Ν	Т		М	0	М	S		G	Е	Ν	Т

Weekly SUDOKU \_\_\_\_

Answer

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

#### Bible Trivia Answers "Test Your Bible Knowledge," with 1,206 multiple-choice questions by columnist Wilson Casey, is available in bookstores and online. -JOWA (2 :W9N (L SHAMSNA

dsil3 (8 ites; 3) Noah; 4) 5; 5) Shushan;