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Garden plants are thriving right now and it seems tomato diseases are doing well too. There are several types of garden tomato diseases that you may encounter this season and this article will summarize the diseases and control options.

**Fungal Leaf Spots:** Both Early Blight and Septoria Leaf Spot diseases are widespread. The diseases have been favored by the rain and leaf wetness we have had so far this summer. Early blight is characterized by the brown, somewhat target-shaped leaf spots, often becoming a half-inch or more across. As the lesions come together, the leaves turn yellow, become blighted and may hang from the plant as curled, brown dead foliage. For Septoria Leaf Spot, the end result is the same, but the spots are tan, fairly circular, and usually remain under one fourth-inch in size.

# Tomato Diseases In The Home Garden

These two diseases can be prevented by application of fungicides containing chlorothalonil (Ortho Garden Disease Control, Daconil, Bonide Fungonil Multipurpose Fungicide) or fixed copper sprays (Bonide Liquid Copper, Ortho Elementals Garden Disease Control), all available at garden centers. However, little benefit is achieved if one waits until strong activity exists before starting spray programs.

**Fruit Rots:** Blossom-end Rot is not can be avoided with adequate supply of soil moisture and adequate calcium levels (use of calcium chloride foliar sprays may assist as well). There is some Buckeye Rot which causes dark brown to black areas to develop on the fruit surface followed by decay. Unlike Blossom-end Rot, the blackened area is not sunken, and it may appear anywhere on the fruit, but usually on that part touching the soil or closest to the ground. Mulch can be used to reduce exposure of the fruits to the soilborne fungus and will also help reduce the occurrence of blossom-end rot. The Late Blight fungus can also cause blackened areas of the fruit, but may be rough and sunken at the margins compared to Buckeye Rot. Late Blight also attacks the foliage, blighting leaves, petioles and stems. Home garden fungicides containing chlorothalonil or fixed copper can be used to prevent

fruit rots cause by these two fungi.

**Wilt Diseases:** Walnut Wilt affects whole plants due to exposure to the toxin, juglone, produced usually by the roots of walnut trees growing near the garden. The toxin can even be produced by roots decomposing in the garden soil after the trees have been cut down. A brown staining of the xylem tissues in the stem can be seen when cut open. A similar dark staining of the xylem may occur when Fusarium wilt, Verticillium wilt, and even with root-knot nematode. Use of the VFN tomato varieties will prevent the latter three diseases.

**Bacterial Spots:** Bacterial Spot and Bacterial Speck can occur in home gardens. In some cases, the microbe causing bacterial spot may have been splashed to tomatoes in the garden from infected pepper transplants bought at a garden store. Bacterial Spot appears as dark, somewhat angular moist-looking spots on leaves and fruits. Disease-control chemicals containing fixed copper may help suppress this disease, but copper-containing chemicals are only partly effective and can damage the plant. Follow label directions.

**Stem Cankers:** Bacterial Canker occurs in commercial tomatoes, but less commonly in home garden tomatoes. Look for brown lesions on petioles and

stems and wilting and drying of foliage associated with the cankers. 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 Mosaic Virus (TMV) can cause mottling and mosaic symptoms and somewhat deformed growth of the leaves and uneven ripening and gray wall of the fruit. Where TMV occurs in the home garden, look at the practice of saving tomato seeds from tomatoes harvested one season and planted the next as a possible practice which perpetuates the disease.

A very good publication with great color photos of tomato, pepper, and potato pest problems is UK Extension publication ID-172, An IPM Guide for Common Pests of Solanaceous Crops in KY. Contact us for a free copy.

For vegetable and other plant disease identification and control options, contact the Estill County Extension Office at 606-723-4557. Educational programs of the Kentucky Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability or national origin.

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These large-growing plants have long stems that resemble bamboo, with showy leaves and clusters of flowers growing from the joints. They can reach 6 feet or more in a pot, and as high as 15 feet or so in the ground in mild winter areas. They like bright light, and need a heavier mix of soil and a substantial pot or support system to keep it from falling over. If leaves yellow and fall off, you are watering too often.

Source: www.begonias.org, kindheartsareagarden.blogspot.com

— Brenda Weaver

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

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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: B equals O

LQSCQL ZTBFM MDQ UBBNCQL

BPPQSQN TO Z JZSUQ

AZJCPBSWCZ ACMO: "MDQ

MSQZML BP LZW PSZWACLAB."

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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.

ADGV ZSOUPBVOZV XADX PU

LSW BS D NPXXNV XAPOY

EVNN, LSW ZDO BS D MPYYVF

XAPOY EVNN, XSS.

— JXSFLV

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## Stickeler's Puzzle

**STICKELERS** [sic].  
by Terry Stickels

Below are 6 different views of the same cube. Can you reconstruct the pattern on the unfolded strip?

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Stickeler's Answer on Page 11

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Bacon	\$4 <sup>25</sup> /Lb.
Jowl Bacon	\$3 <sup>50</sup> /Lb.
Pork Tenderloin	\$4 <sup>50</sup> /Lb.
Pork Chops	\$4 <sup>00</sup> /Lb.
Spare Ribs	\$3 <sup>50</sup> /Lb.
Country Style Ribs	\$3 <sup>50</sup> /Lb.
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## Puzzle Answers

June 22, 2016

**Puzzles4Kids**  
Answer

BREATH	B	HATER
GUARDS	U	GRADS
CHARMS	C	MARSH
RISKED	K	RIDES
TAYLOR	T	ROYAL
SACHET	E	CHATS
LENNIE	E	LINEN
SORBET	T	ROBES
SHINED	H	DINES

**FEAR & KNIGHT**  
answer

C	H						
L	E	A	S				
A	S						
I	D	S		B	L	U	S
M	L	R					
B	E	C	A	L	M	R	
E				I		A	I
T				S			T
H	A	S	T	E			

**Letter Box**  
Solution

U	M	A	L	N	E	C	H	K
L	C	E	H	U	K	M	N	A
K	H	N	M	A	C	U	L	E
A	K	C	U	E	H	L	M	N
E	N	U	A	M	L	H	K	C
H	L	M	K	C	N	A	E	U
C	E	L	N	H	A	K	U	M
N	U	H	C	K	M	E	A	L
M	A	K	E	L	U	N	C	H

**Even Exchange**  
answers

1. Blame, Blade	6. Pleat, Plead
2. Strike, Stripe	7. Prayer, Player
3. Rhine, Rhone	8. Ellen, Allen
4. Reason, Season	9. Stale, Stole
5. Carton, Canton	10. Clover, Clever

**PIECE OF CAKE**

**Weekly SUDOKU**  
Answer

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

**CryptoQuip**  
answer

Series about the goodies offered by a large California city: "The Treats of San Francisco."

**King Crossword**  
Answers  
Solution time: 21 mins.

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

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

**ANSWERS:** (1) Noid; (2) Isaiah; (3) David; (4) Leah; (5) Gamaliel; (6) Ahaz