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Many gardens are thriving right now and under certain conditions tomato diseases can develop. There are several types of garden tomato diseases that you may encounter this season and this article will summarize the diseases and control options. Prevention is the key.

**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. 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

# Tomato Diseases In The Home Garden

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



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microbe causing bacterial spot may have been splashed to tomatoes in the garden from infected pepper transplants which were being sold at some garden stores this spring. **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.

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

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## Stickeler's Puzzle



Match the countries in the left column with their nicknames on the right.

- |                 |                               |
|-----------------|-------------------------------|
| 1. Indonesia    | a. Land of Poets              |
| 2. Philippines  | b. The Cradle of Civilization |
| 3. South Africa | c. Pearl of the Orient        |
| 4. New Zealand  | d. Kiwiland                   |
| 5. Chile        | e. Land of Smiles             |
| 6. Egypt        | f. Emerald of the Equator     |
| 7. Thailand     | g. Rainbow Nation             |

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**Stickeler's Answer on Page 11**

## Wishing Well®

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

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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## 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.

GWN MIZE QMDNI QWM  
UFNYY GM LZNVYN GWN OF  
WSYTVIUY VFN QNVFOIX  
ZVYG ENVF'Y BZMGWNY.  
— SIAIMQI YMSFBN

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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: **A** equals **U**

KRRAVZSN K YZF RZSNWP  
FWKVWC AB GZFY K QZN  
WIWHFPLSZHR HLBKXSX, GLAIC  
FYWX QW RLSX KSC HYWP?

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# ABSOLUTE AUCTION

820 New Fox Road, Irvine, Kentucky

Saturday, July 26<sup>th</sup> • 10:00 AM

We have been authorized to sell at absolute auction the following list of fine personal property located at 820 New Fox Rd, Irvine, KY on Saturday, July 26th at 10:00 AM. The sellers are relocating out of state and can't take it all with them. All equipment and automobiles have been meticulously maintained.

**Truck, Tractor/Equipment & 4-Wheeler**  
sell promptly at 12:00 Noon

**EQUIPMENT:** 1997 Kubota 3350 4-wheel drive diesel 29 HP tractor with Bush Hog 2045 front end loader, one owner - less than 900 hours, FC Agri-Cutter rotary mower, PTO post hole digger, Woods Box Blade, tractor weights, 1994 Nissan 4x4 King Cab, cold AC, new tires, less than 1 year old professionally rebuilt transmission, 2001 Honda 450 Foreman ES 4-wheeler with new tires - 2400 miles, Cub Cadet LT1045 42" riding mower.



Visit [www.auctionzip.com](http://www.auctionzip.com) for more photos.

**ANTIQU/VINTAGE:** Dresser table, nice 1920s bedroom set including highboy wardrobe, chest and mirrored dresser, mid-century 4-drawer chest and dresser, antique German oak plate/cup shelf, oak mirrored dresser, late 1800s wood baby crib, desk, fern stand, wood wardrobe, maple Mission type library table, wood ammo boxes, misc primitive tables, misc enamel ware pieces, Indian Motorcycle/Ford wrenches, antique hay harpoon, coffee/tobacco tins, 1952/57 Sears catalogs, numerous wood boxes, feed/mill sacks, telephone stand, one and 2 man crosscut saws, wood box corn sheller, single trees, numerous wood/metal pulleys, wood mallets, wood nail keg, cast iron fireplace surround, antique bow saw, galvanized water cans/buckets/tubs, antique car jacks, copper water boiler, misc horse tac, antique hand auger, ice tongs, wood covered kerosene cans, antique scales, cast iron water kettles, vintage wood storage box, antique German sled, antique strap-on ice skates, numerous license plates.

**TOOLS/ETC:** Ridgid radial arm saw, power tools, pushmower, Troy-Bilt power trimmer, weed eaters, vintage metal tool cabinet, nuts, bolts, screws, etc, power washer, poultry supplies, galvanized garbage/feed cans, hand saws, numerous farm/hand tools, metal gas cans, numerous extension/step ladders, Husqvarna yard trailer, appliance dolly, dog cages, log chains, etc.

**FURNITURE/PERSONAL PROPERTY:** Very heavy cherry file cabinet, hand built wood headboard, computer desk, Amana Ref/Freezer, cast iron banks, nice kids toys including big wheels, bikes, playhouses, etc, lawn chairs, mirrors, large doll collection including classic black and white Gerber babies, hand crafted bird houses of all types, bed linens, blankets, quilts, glassware, kitchen utensils, baskets, radios, books, fans, lamps, lanterns, framed prints, records, cookbooks, rugs, Christmas decorations, much, much more.

**All items are selling as-is, where-is. Buyer is to satisfy themselves of condition and suitability prior to bidding.**

**TERMS:** Full payment day of sale. All items, excluding automobiles, must be removed day of sale. Possession of automobile will be delivered upon transfer of title at county clerk's office.

Viewings one hour prior to sale or by appointment.

**DIRECTIONS -** From Main Street in Irvine take Winchester Road (Hwy 89 North) 8.5 miles, left onto New Fox Road. Sale will be approximately 8/10 mile on the right. Watch for signs. Announcements day of sale take precedent over all prior printed or verbal statements.

**Willis Estes Realty & Auction, Inc.**  
Willis Estes, Principal Broker/Auctioneer  
Call Willis at 606-723-6925

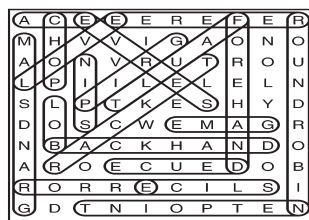


# Puzzle Answers

July 16, 2014

## Puzzles4Kids

Answer



Riddle Answer:  
In Volley-wood.

## FEAR & KNIGHT

answer

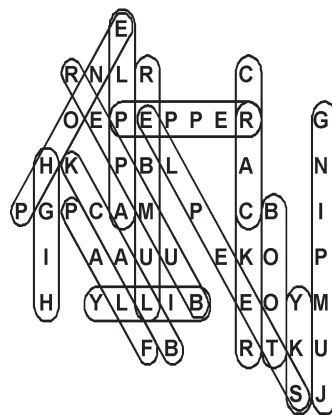


## Letter Box

Solution

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| H | M | E | Y | T | O | P | F | A |
| P | F | Y | A | E | H | O | M | T |
| A | O | T | F | M | P | E | H | Y |
| M | H | O | P | Y | A | T | E | F |
| E | A | F | M | H | T | Y | O | P |
| T | Y | P | E | O | F | H | A | M |
| Y | P | M | O | A | E | F | T | H |
| F | E | H | T | P | M | A | Y | O |
| O | T | A | H | F | Y | M | P | E |

— JACK



## Even Exchange

answers

- |                   |                   |
|-------------------|-------------------|
| 1. Ponder, Powder | 6. House, Horse   |
| 2. Brave, Bravo   | 7. Dover, Diver   |
| 3. Wizard, Lizard | 8. Random, Ransom |
| 4. Nobel, Novel   | 9. Grown, Growl   |
| 5. Oldest, Oddest | 10. Chase, Chose  |

## Weekly SUDOKU

Answer

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

## King Crossword

Answers

Solution time: 21 mins.

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | G | R | A | B | L | T | T | A | T | A |   |   |   |
| R | O | A | R | R | O | O | N | E | S |   |   |   |   |
| T | Y | P | E | C | A | S | T | U | T | A | H |   |   |
| S | A | T | L | I | T | I | C | I | L | I |   |   |   |
|   |   | T | A | N |   | R | A | H |   |   |   |   |   |
| B | E | L | O | W | S | A | N | D | A | L | S |   |   |
| B | E | A | U | V | O | W | O | P | I | E |   |   |   |
| C | L | O | C | K | E | D | T | W | E | E | T |   |   |
|   |   | H | E | X |   | C | O | N |   |   |   |   |   |
| P | I | E | T | Y |   | F | O | R |   | B | U | S |   |
| E | D | D |   |   |   | D | O | W | N |   | C | A | S |
| W | E | E | P |   |   | T | R | E |   | O | B | E | Y |
| S | A | N | E |   |   | P | E | R |   | W | A | D | E |

## Bible Trivia Answers

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

ANSWERS: (1) New; (2) Peter; (3) Silver; (4) Job; (5) Wisdom; (6) Manoah