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Tomato Ripening Disorders

carotene are the two pigments that give a tomato fruit its color. Temperatures above 85°F tend to slow or even halt the production of these two pigments. Low potassium levels could also contribute to this disorder so a soil test is needed.

Catfacing can be the result of poor pollination generally due to extremely hot or cold temperatures or severe drought conditions. The best management strategy is to select varieties that have shown little tendency to catface in the past.

Sunscald typically occurs on the shoulders of tomato fruit, though can occur anywhere the fruit are unprotected from full sunlight. Some varieties are more susceptible than others. Avoid varieties that provide little foliar coverage while producing unprotected fruit. Nitrogen fertility and irrigation can also reduce/increase the amount of foliage that a plant produces, affecting the chances for sunscald injury.

White core is generally characterized by the presence of a thick, tough, large white core in tomatoes. In general it is believed to be caused by stressful conditions, in particular excessively high temperatures and in some cases, excessive fertility. Some varieties, including those that are not specifically bred for

heat tolerance, are more susceptible than others. White core can occur in high tunnel tomatoes when spring temperatures are excessive (> 100° F) due to inadequate ventilation.

Blotchy ripening is believed to be caused by a number of factors, including inadequate potassium availability, cool and cloudy weather and moisture stress. If blotchy ripening is a persistent problem have a soil test done and check the Hartz Ratio (included on UK soil tests for commercial tomato production). Applications of potassium nitrate during fertigation can help. Some varieties are more susceptible than others.

Yellow shoulder is a ripening disorder that is distinct from blotchy ripening. Varieties that lack the uniform ripening gene are more susceptible, as are varieties that produce less foliage to shade fruit. This is similar to sunscald.

Cracking generally appears near the stem scar and is the result of rapid fruit growth usually brought on by periods of drought followed by heavy rains or irrigation events. Concentric cracking can often occur when standing water sits on the shoulders of fruit. There are large varietal differences in susceptibility to cracking. Cracking can be greatly reduced by choosing resistant varieties

and managing irrigation.

Blossom end rot, noted by decay on the bottom of the fruit, is caused by inadequate translocation of calcium through the plant during fruit development. Generally the problem is not insufficient soil calcium levels but rather inadequate soil moisture to deliver the calcium to the plant. Once the condition has developed it cannot be corrected on affected fruit; better water management and application of calcium-containing fertilizers, if necessary, can prevent further loss.

To access online photos and descriptions of tomato physiological and nutritional disorders, visit <http://veggiescout.ca.uky.edu/physiologicalandnutritionaldisordersofsolanaeouscrops> or contact the Estill County Extension office at 723-4557.

Cattle Producers Meeting - August 9th

The Estill County Cattlemen's Association and Cooperative Extension are sponsoring a cattle producers meeting on Thursday, August 9th, 6:00 p.m. at the Extension office, 76 Golden Court (off Stacy Lane) in Irvine.

The focus for the meeting is cattle market outlook. Our guest speaker is UK Livestock Marketing Economist Kenny Burdine. A meal will be provided so make sure to pre-register by August 6th by calling 723-4557. The Estill County Cattlemen's Association will have a business meeting afterward. Everyone is welcome!

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Gardeners are seeing tomato fruit ripening disorders lately in part because of the high temperatures we experienced last month. In this article, I will discuss a few common tomato disorders you may experience in your garden or field.

A local commercial producer showed me a tomato with a green core (see photo) that extended down into the fruit. UK Horticulture specialist Rachel Rudolph diagnosed it as **delayed ripening disorder** caused by extremely high temperatures. Mature green tomatoes ripen most rapidly at temperatures between 68 and 77°F. The greater the deviation from that temperature range, the slower the ripening process. Extremely stressful temperatures can virtually halt the process entirely. Pigment (color) development in tomato fruit occurs in the very final stages of ripening and is temperature-sensitive. The red pigment lycopene and yellow pigment

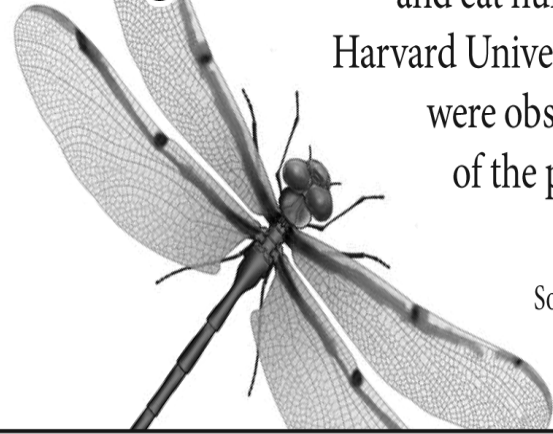
Delayed Ripening Disorder



Photo courtesy of Eric Baker



Dragonflies



In their larval stage dragonflies are aquatic. They eat tadpoles, mosquitoes, tiny fish, other insect larvae and even each other. In their adult form, they hunt flying insects for food, and can catch and eat hundreds in a day. In one Harvard University study, dragonflies were observed to catch 90-95% of the prey released into their enclosure. - Brenda Weaver

Source: www.smithsonianmag.com

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Go Away, Hawk!

I had a sharp-shinned hawk patrolling my yard and eating the doves. I decided that for one week I would not put food on my tray feeder. This stopped the birds from hanging around out in the open, and so the hawk found somewhere else to go. We are quite relieved.

E-mail: birdingbits@cfl.rr.com
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Wishing Well®

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

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: Q equals F

CWLNR W PBG UPR QIZ KPWIR W
KBC EL JA IBCU QIWYPU, AEZ
JWYPU CBA UPBU W EQURL
NEZYPRG BIEQU.

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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.

ARCDMZW MJZ'K R CYJK RBK
- YZS QIJK, MZ JYQS ARV,
WSK KY KES WRBRWS.
- SPRZ SJRB

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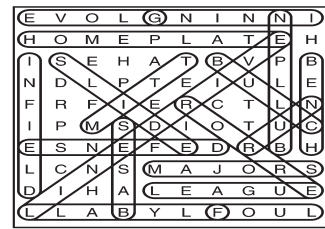
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Puzzle Answers

August 1, 2018

Puzzles4Kids

Answer



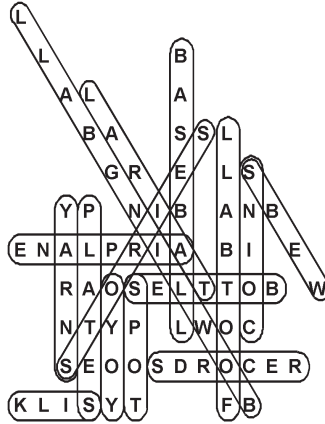
Riddle Answer:
He had perfect pitch.

Letter Box

Solution

E	L	R	V	B	D	O	U	A
A	B	O	U	L	R	D	E	V
D	U	V	A	O	E	R	B	L
O	R	D	B	V	L	U	A	E
U	E	L	O	R	A	V	D	B
V	A	B	E	D	U	L	O	R
L	D	E	R	A	O	B	V	U
B	O	U	L	E	V	A	R	D
R	V	A	D	U	B	E	L	O

THINGS WE SPIN



CryptoQuip

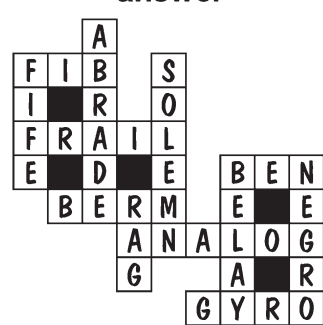
answer
Since I had the flu while I was on my last flight, you might say that I often coughed aloft.

CryptoQuote

answer
Walking isn't a lost art - one must, in some way, get to the garage.
- Evan Esar

FEAR & KNIGHT

answer



Even Exchange

answers

- Grace, Grape
- Revere, Severe
- Mouse, Morse
- Cheery, Cherry
- Akron, Apron
- Prince, Prance
- Heard, Heart
- Cindy, Candy
- Notion, Nation
- Lunch, Lurch

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 24 mins.

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

Bible Trivia Answers

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

ANSWERS (1) Old: (2) Jeremi- (3) Galatians; (4) Live coal; (5) Wrath; (6) 2



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Thank you!

