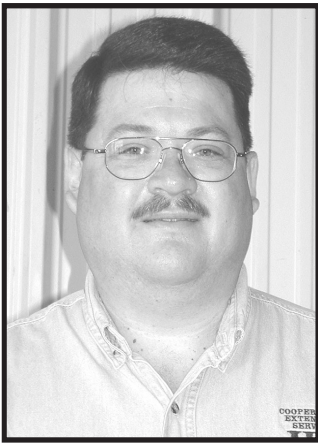


# Time for Preventative White Grub Treatment in Lawns



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Larvae of masked chafers and Japanese beetles are responsible for most of the root damage to turfgrass in Kentucky. They are flying now and rainfall provides easy burrowing for females entering the soil to lay their eggs. Soil moisture is also an important factor in egg hatch and survival of newly hatched beetle larvae. Japanese beetles fly during the day so it is relatively easy to identify sites where they may be a problem. However, masked chafers fly at night and are strongly attracted to lights. Some nocturnal scouting or watching outdoor lights can give an idea of their activity.

According to UK Extension Entomologist Lee Townsend, many of the insecticides used to control white grubs in turfgrass must be applied now as preventive treatments on high-risk sites with a history of grub problems or where heavy beetle activity is noted. These insecticides should be applied between now and

mid-July to catch the small grubs, which are most susceptible to the treatments. Active ingredients in these products include chloranthraniliprole (Acelepryn, Scotts GrubEx1 Season-long Grub Killer), clothianidin (Arena), imidacloprid (Merit, Bayer Complete Insect Killer; and other brand names), and thiomethoxam (Meridian).

For best results with any grub insecticide, mow the lawn and remove dead grass and thatch before treatment. This allows the spray or granules to penetrate better and reduces the amount of insecticide bound up by surface debris. White grubs are especially hard to control in thatch-filled turf because most of the insecticide binds to the organic matter and fails to reach the root zone. Water the lawn immediately after treatment to move the insecticide into the root zone where the grubs are feeding. In addition, moisture draws grubs closer to the soil surface, which increases their contact with the insecticide. Use a lawn sprinkler to drench the soil with 1/2 to 1 inch of water. Measure this by placing a disposable pan or rain gauge in the treated area to catch the water that is applied. If supplemental irrigation is not available, try to apply the insecticide just before a good rain.

Prompt, post-treatment irrigation is especially important for spray applications; once spray residue dries on foliage it is more difficult to wash it into the root zone by

later watering. Granular insecticide formulations may work better when timely irrigation is not possible. The relatively long lasting preventive grub insecticides tend to be more forgiving than the curative products if post-treatment watering is unavoidably delayed for a few days.

See the following UK Extension publications for more information on white grub control and insecticide alternatives: Controlling White Grubs in Turfgrass (ENT-10) and Insecticides for Control of White Grubs in Kentucky Turfgrass (EntFact-441).

### FALL GARDEN PLANNING

It's time to start planning how you can continue to enjoy your garden and even add new plantings. You can plant a variety of produce in Kentucky gardens in the coming weeks allowing fresh items to be available well into the fall.

The cooler nights experienced later in the year as these vegetables mature may increase the sugar content of many crops and thus increase their quality. Cooler nights also slow growth, so crops can take longer to mature than in the summer. Keep this slower pace in mind when you check seeds for days to maturity.

Late July or early August would be the time to make a last planting of bush beans, carrots, sweet corn, kale, collards, Bibb lettuce, turnips, and cole crops such as kohlrabi, Chinese cabbage, Brus-

sels sprouts, cabbage, cauliflower and broccoli. For late August and into September try planting mustard greens, spinach greens, radishes, turnip greens and leaf lettuce.

Before planting, remove any existing debris including crops and weeds to the compost bin and cultivate the soil.

If the previous crop was well fertilized and grew vigorously you may need to add little if any additional fertilizer; otherwise apply about 2 to 3 pounds of a complete fertilizer such as "5-10-10" or "10-10-10" per 100 square feet of planting area. Remember to keep fall gardens watered as this tends to be a fairly dry time in Kentucky. A weekly irrigation sufficient to wet the soil to 6 or 8 inches should be adequate. This is more or less equivalent to a weekly one-inch rain.

If you want to buy locally grown vegetables and other locally produced items, the Estill County Farmer's Market is open Friday's 3:30 p.m. to 6:30 p.m. at the Estill County fairgrounds on South Irvine Road. On the second Tuesdays of each month, the market is open 11:00 a.m. to 2:00 p.m. at the Estill County Extension Service off Stacy Lane.

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## Wishing Well®

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

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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: H equals B

AIYD HAEMDT RYXP EAXXE

KNWPR NDF KYYWMPR, XE

FNATLVPC ICYKPPFPF VY

HCMDT LYXP VLP HNWMD'

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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.

PTSJLWATSR KWB TIRMJ

FDTPRMFR KWB RT

QTPPMQR LMRHJWRHTJ.

— "QDWPVHM QDWJ"

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# Puzzle Answers

## July 11, 2018

### Puzzles4Kids

Answer

SHIELD L HIDES  
UNSURE U NURSE  
MARKED K DREAM  
CLOSED E SCOLD

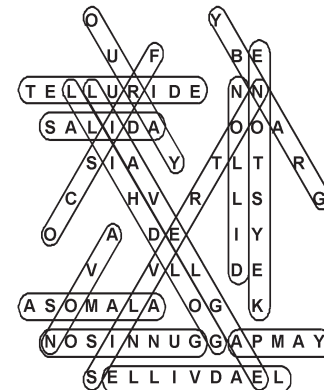
BAYLOR B ROYAL  
REASON O NEARS  
HATTER T EARTH  
ESTHER H RESET  
REWIND W DINER  
EASING A SINGE  
PRAYED Y DRAPE  
LISPED S PILED

### Letter Box

Solution

L	M	A	N	O	I	W	D	Y
D	O	W	A	Y	L	I	N	M
I	N	Y	W	D	M	A	O	L
O	Y	I	M	W	N	D	L	A
A	L	N	D	I	Y	O	M	W
M	W	D	O	L	A	N	Y	I
W	I	L	Y	N	O	M	A	D
Y	A	O	I	M	D	L	W	N
N	D	M	L	A	W	Y	I	O

### COLORADO CITIES OVER 7,000 FEET



### CryptoQuip answer

Upon buying some yummy cakes and cookies, my daughter proceeded to bring home the bakin'.

### CryptoQuote answer

Roundabout way often shortest way to correct destination. — "Charlie Chan"

### FEAR & KNIGHT

answer



### Even Exchange

answers

- Recipe, Recite
- Drove, Drone
- Bacon, Baron
- Around, Ground
- Nickel, Nicked
- Flash, Flush
- Chair, Chain
- Oddest, Oldest
- Gauze, Gauge
- Marry, Merry

### Weekly SUDOKU

Answer

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

### King Crossword

Answers

Solution time: 25 mins.

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

## The Garden Bug

### Tomato troubles

**Mix together:**

- 1 tablespoon of baking soda
- ½ teaspoon mild detergent
- 2½ tablespoons of olive oil
- 1 gallon of water

This mixture can be put into pump bottles, and sprayed onto tomato plants as a natural insect repellent or as a fungicide for blight and mildew. Be sure to shake the mixture sufficiently before each spraying. — Brenda Weaver  
Source: www.hunker.com

## Birding BITS

BY Cindy Brook

### Fruits and Berries

If you want to attract non-seed-eating birds into your yard, fruits such as grapes, raisins, cherries, apples and orange halves will attract mockingbirds, gray catbirds, orioles, towhees, cedar waxwings, blue birds, tanagers and many more. Use a tray feeder or place on the ground near brush cover.

E-mail: [birdingbits@cfl.rr.com](mailto:birdingbits@cfl.rr.com)  
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## Stickeler's Puzzle

Match the words on the left with their respective meanings on the right.

1. sanative	a. having webbed feet
2. vafrous	b. healing, curative
3. dizen	c. to dress up
4. palmate	d. cloudy
5. nubilous	e. cunning, sly

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## Americanisms

"The only place success comes before work is in the dictionary."  
— coach Vince Lombardi

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# Century 21

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Thank you!

## Bible Trivia Answers

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

ANSWERS (1) Neither; (2) Job; (3) Iron; (4) Satan; (5) Lev; (6) John the Baptist