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Tall ironweed (Vernonia altissima Nutt.) is one of the more commonly found weeds in grazed pasture fields and other non-cropland areas. In Kentucky, tall ironweed is ranked as the most troublesome and third-most common weed found in grazed pastures. The quantity of grass available for grazing can be substantially reduced in pastures by the presence of tall ironweed because of its unpalatability to livestock. This further leads to an increase in tall ironweed popu-

Tall Ironweed Control in Grazed Pastures

lations over time as animals graze and selectively avoid this weed.

According to University of Kentucky Extension weed specialists, mowing alone can help suppress top growth of tall ironweed plants, but does not reduce plant populations. Mowing or clipping pasture fields, which is often performed once per year, can also lead to more multi-stemmed tall ironweed plants. Whereas, using a timely herbicide application in problem fields is one method to effectively reduce tall ironweed populations. Based on several field research studies tall ironweed populations can be reduced 80 to 95% the year following herbicide treatment when combined with other management strategies.

A herbicide-based control program for tall ironweed in grazed pastures may require a 12- to 18- month time period to reduce tall ironweed populations and allow for re-establishment of clover. Tall ironweed control should start

in early to mid-July by mowing emerged tall ironweed stems. Mowing removes top growth of currently emerged plants which often have older, tattered leaves. This also forces the plant to use more stored energy from its roots to develop new shoots. When plants regrow 10 to 20 inches in height (generally in mid to late August) the younger stems and leaves are more conducive for herbicide uptake. In August or by early September apply a pasture herbicide containing either triclopyr (eg. PastureGard, Crossbow, etc.) or aminopyralid (eg. GrazonNext, etc.) as a broadcast treatment.

One of the drawbacks to the application of broadleaf pasture herbicides is that they can impact desirable clover stands. Emerged clover within the treated areas of the field are likely to be killed. Consult the herbicide label of the product used for minimum reseeding intervals for clovers and other desirable forage grasses. Also, ob-

serve other precautions prior to application.

This approach for tall ironweed control is best suited for fields with moderate to heavy tall ironweed populations. For lighter infestations levels, a spot treatment of individual plants may be warranted to keep tall ironweed populations from becoming a major problem. Use of rope wick applicators and roller wipers have also been evaluated for tall ironweed control as a method to minimize injury to clover. However, the results have consistently been less successful than broadcast herbicide treatments for control of tall ironweed.

For more information on weed control options, contact the Estill County Extension Service at 723-4557.

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Wishing Well®

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

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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: D equals P

O'S ROGI LW LXUFYUOHJV QNBV
WFLS IFOGROGH TLVB LW DZFVE
WFNOV QNOKU. YLNTI ELN BZE O
JZXU Z DNGKJ DZNGKJ?

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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.

XA CAJ PIRO I KJUCVD
KICXGUYT; NUQO JTO YAQX-
YEJK TUVT; YEKJAPOLK KTAEQX
KOO KIQIPU YAPUCV JTLAEVT
JTO LDO. — IQIC KTOLPIC

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Puzzle Answers July 26, 2017

Puzzles4Kids Answer

What is purple and very long?

The grape wall of China.

Letter Box Solution

R	T	O	M	A	N	K	G	E
E	M	A	G	K	T	R	O	N
K	G	N	R	E	O	A	T	M
G	R	E	A	T	M	O	N	K
O	N	K	E	R	G	T	M	A
M	A	T	N	O	K	E	R	G
T	E	G	K	N	R	M	A	O
N	K	R	O	M	A	G	E	T
A	O	M	T	G	E	N	K	R

REPEATED PAIR OF LETTERS

CHD
O L O T A N P T
T N E N O R A O
N F D N R B H E R P
E T O N T O O F T S T S
O T N O E L R A O O
T N O E L R A O O
C O F O E R H
D E G D E W T N A R G A R F

CryptoQuip answer

I'm kind of overweight just from drinking lots of party fruit juice. Would you say I have a punch paunch?

CryptoQuote answer

Do not make a stingy sandwich; pile the cold-cuts high; customers should see salami coming through the rye. — Alan Sherman

FEAR & KNIGHT answer

A	A					
B	A	R	P	B		
A	T	R	I	E	R	
N	S	H	A			
F	E	T	I	S	H	Y
E	H	H	E	R		
S	T	O	L	I	D	
T	T	N				
Y						T

Even Exchange answers

- Eager, Wager
- Green, Greed
- Reader, Redder
- Morse, Horse
- Drove, Drone
- Lesson, Lessen
- Parts, Paris
- Matter, Mutter
- Pastel, Pasted
- Menus, Minus

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 27 mins.

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

Bible Trivia Answers

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

ANSWERS (1) Neither; (2) Jerusalem; (3) Jehochin; (4) Angel; (5) Reuben; (6) Adonibe



Excessive rain on plants promotes stunting, spots on foliage, decay on leaves, stems or fruit, wilting and sometimes death of the entire plant. Remove any diseased leaves or fruit from plants and from the surrounding ground as well. Disease spreads easily when leaves are wet, so avoid pruning or harvesting until the foliage dries. Stake plants to improve aeration, and improve soil drainage if it is lacking. Apply fungicide if needed.

Sources: www.gardeningknowhow.com

- Brenda Weaver

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Bird Observation

A brown thrasher pair comes to my tray feeder. They toss sunflower chips on the ground, which is where they prefer to eat, and are very bossy, chasing off all the doves. They sometimes use all three of my birdbaths for a single bath!

E-mail: birdingbits@cflrr.com
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Stickeler's Puzzle

STICKELERS
by Terry Stickels

If X = Y = 2Z

and

X times Y times Z = 864,

what is the value of Y?

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Stickeler's Answer on Page 11

Americanisms



"If there's a book you really want to read but it hasn't been written yet, then you must write it."

— author Toni Morrison

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