



Eric Baker
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Until 2014, Kentucky farmers hadn't grown industrial hemp in more than 50 years. Since then, University of Kentucky College of Agriculture, Food and Environment researchers have taken on many projects with the crop. With research for pharmaceutical use of hemp components coming into focus, farmers are realizing a real challenge—harvesting the giant plants.

"The part of the plant the pharmaceutical industry believes has the most potential is the flower at the top," said Tim Stombaugh, UK extension agricultural engineer. "That flower is the part

UK Ag Hemp Harvester Design Shows Promise

where they can extract the most cannabinoids. If the crop were shorter, we could use traditional hay harvesting equipment, but most varieties are currently just way too tall for that at 10 to 12 feet."

Most recently the process for growing and harvesting hemp for cannabinoid extraction has been through intensive management of individual plants in a greenhouse environment. The scientist grows the plant, harvests the parts they want, hangs it upside to dry and then individually processes each plant. Stombaugh said they thought about trying to harvest the flowers by hand, but with 30 acres, it just wasn't feasible.

In the summer of 2015, a participant in the Kentucky hemp pilot program approached the UK Department of Biosystems and Agricultural Engineering and offered to fund a project to design a harvester. "They contacted us last July and asked if we could have a prototype by Sept. 1," Stombaugh said. "It was a tight deadline, but our engineers got busy, and we had it ready to use."

UKAg engineers borrowed from current technology. They used the grain head from a combine and selected several useable parts. The new harvester can connect to any tractor with a front-end loader with a standardized connection. They used electricity to power the harvester.

"Most implements use hydraulic power, but that would have made it harder to move from tractor to tractor," Stombaugh said. "We put a generator on the back of the tractor to create power for the harvester. All of the equipment can fit on the back of a gooseneck trailer, so it's very easy to move from one machine to another."

While farmers are still in the investigative stages of hemp production, the harvester shows potential to help cut down on labor and reduce time in the field. "If hemp is going to be a potential crop for Kentucky, and we can do some things to help farmers harvest it, it's going to be valuable for everyone down the road," Stombaugh said. "There's still so much we are learning about hemp, but we did the best we could, and it worked. Helping farmers do

their jobs in a way that saves them money, labor and time is always something we are interested in doing."

The hemp harvester spent the winter on the UK campus but will likely be out in the field later in 2016.

For more information, visit the UKAg Industrial Hemp page at <http://hemp.ca.uky.edu/> or contact the Estill County Cooperative Extension Service at 723-4557.

Educational programs of the Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability or national origin.



Nest Building
Birds soon will be gathering material for their nests, and here's how you can help. Put out soft things like string, yarn and (clean) dog hair (NO dryer lint!). These items can be hung from tree branches or scattered on the ground, and will provide extra cushioning for new hatchlings.

E-mail: birdingbits@cflrr.com
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Wishing Well®

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

XNVLBWN K FMT'H ELUN NTMBYE
RMTNS HM XBS RS OLUMJKHN
TBHW, K YBNWW K'R
WHJLCCNF OMJ VLWENIW.

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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.

SI NXI KIAYDYMJ AYRI H
CKMAAIU EHK - SI KYZI
YC MJAU SGYAI YC YX
DMYJD MNK SHU.
- XMNKEI NJRJMSJ

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Stickeler's Puzzle



What is the missing number?

17		3		8				
4	7	5	18	9	10	5	5	6
	2		5		1			
	12		13					
9	10	11	7	?	2			
	8		2					

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Stickeler's Answer on Page 11



The rosette

A rosette is a stylized flower design used extensively in ancient sculpture. It borrows shapes and patterns found in leaves, stems and flowers. It is often seen in carved stone or wood architecture and furniture, and also in metalworking, jewelry design and household items, forming a decorative border or at the intersection of two materials. Some of the earliest appearances of a rosette design come from sites in Egypt and southern Crete.

- Brenda Weaver

From "A Handbook of Ornament" by Franz Sales Meyer (1898)

Source: wikipedia

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AUCTION

(ABSOLUTE - RAIN OR SHINE)

Saturday, April 2ND at 10:00AM

REAL ESTATE

Barnes Realty & Auction has been authorized to sell at public auction the real estate of the late Mr. Tracy Warner located at 1600 Sand Hill Road, Irvine, Ky.

LOCATION: 1600 Sand Hill Road, Irvine, Ky.

DIRECTIONS: From Irvine, take Hwy. 52 1.8 miles, turn right on Hwy. 1457 (Sand Hill Rd.), proceed 1.5 miles & watch for signs. From Lex., take 1-75 to exit 90A (Robert Martin By-Pass) to Hwy. 52 E, turn left on (Irvine Rd.) approx. 13 miles, turn left on Hwy. 1457 (Sand Hill Road).

REAL ESTATE: House-Barn-100 acre farm (more or less) - Large Boundary

The house has 3 bedrooms, living, dining, kitchen & bath on main level. There is a 13' breezeway connecting the house to a 14' x 25' one-car garage. The property has city water, small outbuilding and a 48' x 65' barn. The subject property has 540' of Sand Hill Road frontage. This farm has several springs, pasture land, wooded area, timber and is partially fenced.



1600 Sand Hill Road, Irvine, Ky.

PERSONAL PROPERTY — GUNS: H & R 622 double action pistol, 410 Stevens-single barrel, Marlin 12 gauge pump, 12 gauge shotgun, J N Scott 12 gauge double barrel, Winchester 22 single shot-Model 67 (L or LR).

TERMS: 10% down day of sale on real estate, balance on or before 30 days with delivery of deed. Personal Property—Cash or check with proper ID day of sale with 6% sales tax. 2016 property tax will be prorated. Any and all inspections are the responsibility of the buyer to be made prior to day of sale. Property is being sold "As Is" condition. Not responsible for accidents. Announcements day of sale takes precedence over printed material.

AUCTIONEERS' NOTES: GREAT LOCATION - Rare really nice farm. Only 1 1/2 miles off Richmond Road. House and barn are in need of repairs. Timber has not been harvested-Check this out. Whether looking for any or all of these: timber-pastureland-wooded area (ideal for hunting)-cattle/horse farm operation-subdividing—LOOK NO FURTHER-THIS IS IT!!

Barnes Realty & Auction



Barbara Barnes
Broker

(606) 723-5396
Irvine, Kentucky



Donnie Barnes
Jeff Carter
Auctioneers

Puzzle Answers

March 16, 2016

Puzzles4Kids

Answer

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

Letter Box

Solution

S	C	U	I	O	M	L	T	N
M	T	N	L	S	C	U	O	I
L	I	O	N	U	T	S	M	C
O	N	S	T	C	U	M	I	L
T	U	M	S	L	I	C	N	O
I	L	C	M	N	O	T	U	S
C	O	L	U	M	N	I	S	T
N	M	I	C	T	S	O	L	U
U	S	T	O	I	L	N	C	M

COMPANIES IN THE DOW 30

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

CryptoQuip

answer
Because I don't have enough money to buy my favorite nuts, I guess I'm strapped for cashews.

CryptoQuote

answer
We use religion like a trolley car — we ride it only while it is going our way.
— Source Unknown

FEAR & KNIGHT

answer

D												
A	T											
I	T	S	A	T	Y	R						
R	O	A	S	T	E							
S	C	A	S	T	Y							
T	H	A	N	L	E							
						C	O	A				
						N	E	C	T	A	R	
											H	

Even Exchange

- answers
1. Wallet, Ballet
 2. Caper, Cater
 3. Nation, Notion
 4. Digest, Divest
 5. River, Rivet
 6. Barber, Berber
 7. Grass, Gross
 8. Pitch, Patch
 9. Beatty, Beauty
 10. Arbor, Armor

Weekly SUDOKU

Answer

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

King Crossword

Answers
Solution time: 27 mins.

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

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

ANSWERS (1) Neither:
Disciples; (5) Thomas; (6) 40
(2) Matthew; (3) An angel; (4)