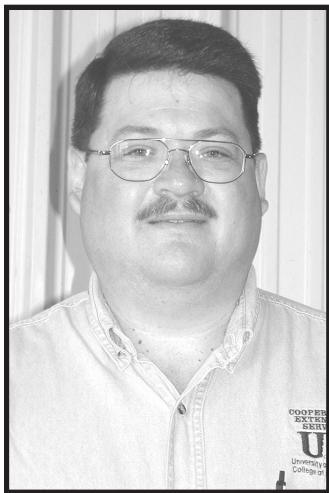


UK Industrial Hemp Research Progressing In 2nd Year



Eric Baker
Estill County Extension Agent for Agriculture & Natural Resources

Industrial hemp research at the University of Kentucky is moving along in its second year. Researchers in the University of Kentucky College of Agriculture, Food and Environment have been conducting different hemp projects under the guidance of the Kentucky Department of Agriculture.

While the first year's pilot project was limited to varieties used for fiber production, this year's research trials, led by UKAg agronomists David Williams and Rich Mundell, include hemp varieties used for the production of fiber, grains and cannabinoids. Cannabinoids, such as hemp-based cannabidiol, may be used in food and dietary supplements for consumer health and wellness benefits.

"Our work has expanded greatly this year to include all three harvestable components of hemp," Williams said. "We are hoping to optimize grower profitability through these small plot studies."

Research projects include comparing the fiber quality

of three varieties of hemp. The varieties will be compared to each other as well as flax and kenaf, other fiber plants. The project will look at two harvest methods and three harvest timings when the plants are at different maturities.

Other research includes two separate hemp variety trials for fiber and grain production, herbicide tolerance trial for hemp used for grain production and a row spacing trial geared toward fiber production. Specific projects are conducted in conjunction with researchers at Murray State University, Western Kentucky University and Eastern Kentucky University.

Earlier this year, UK researchers faced some initial planting delays due to acquiring seed from international sources and wet weather throughout much

of the spring and summer. These delays will not affect harvest, but will likely have researchers harvesting smaller plants.

Leah Black is the university's first graduate student concentrated solely on hemp research in the modern era. Her research projects focus on cannabinoid production. In addition to being used in food and dietary supplements, the pharmaceutical industry is researching cannabinoids for a variety of therapeutic purposes. Right now, all of the cannabinoids found in health and nutrition products come from outside the U.S.

Black is specifically investigating whether unfertilized populations of female hemp plants produce more cannabinoids. She will also conduct a yield test based on direct seeding and various seed densities using a tobacco

setter. "It's a very familiar process for our Kentucky tobacco farmers, which is who we are trying to center the experimental design on," she said. "We still have a lot to learn, especially when it comes to harvest, but it's definitely a point of interest for us to try to preserve the equipment that our farmers are used to."

While UK research is still in its beginnings, UK agronomists hope this year provides the first of what will eventually become publishable research data. All agronomy research must be conducted for at least two years. For more information, call the Estill County Extension office at 723-4557.

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

Estill County Man Has Been Elected Angus Delegate To 132nd Convention

Jason E. Crowe, Irvine, Kentucky, has been elected as a delegate to the 132nd Annual American Angus Association[®] Convention of Delegates, Nov. 5 at the Overland Park Convention Center in Overland Park, Kan., reports Richard Wilson, Interim CEO of the American Angus Association.

Crowe, a member of the American Angus Association with headquarters in Saint Joseph, Mo., is one of 327 Angus breeders who have been elected by fellow members in their state to serve as a representative at the annual meeting. Representing 42 states, District of Columbia and Canada, the delegates will participate in the business meeting and elect new officers and five directors to the American Angus Association board.

The annual meeting will take place in conjunction with the 2015 Angus Means Business National Convention and Trade Show, Nov. 3-5, in Overland Park, Kan. The event is open to anyone in the cattle business and will feature high-profile keynote speakers; educational sessions, featuring thought leaders from every industry sector; the International Angus Genomics

Symposium, sponsored by Neogen's GeneSeek operations; Angus University, sponsored by Merck Animal Health; entertainment; evening galas; prize giveaways; and an expansive trade show. Visit www.angusconvention.com to learn more.

The American Angus Association is the nation's largest beef breed organization, serving nearly 25,000 members across the United States, Canada and several other countries. For more information about Angus cattle and the 2015 convention, visit <www.ANGUS.org>.

Wishing Well[®]

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

HLEEUHI AUL WU HUDI DBNM
BCW ESUYIHW NU QBCJLTHM BC
ICIDA. MBQI AUL WTQTIW BCW
YUCJLISIW?

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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.

Z XTTV BZO DZIS DEM QTZJ
SBANTEWSNSW KEJD CTWV,
APJ EJ EM Z XTTVM QTZJ
MJEVV. NEIZNTV

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This bulb blooms from August to September; its common name is "autumn crocus." It likes sunny or partly shady areas. **Be warned:** this plant contains colchicine, which is very toxic. Many human deaths have been reported from ingesting this plant, as it can be mistaken for wild garlic. Deer, rabbit and other wild creatures will avoid this plant.

- Brenda Weaver

Source: www.thepoisoningarden.co.uk

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Stickeler's Puzzle



What three letters fit in the blanks below (the same three letters for each word)?

U _ _ ITY
FU _ _ E
LEN _ _ _
AR _ _ LERY
REP _ _ ES

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Stickeler's Answer on Page 11

Visit Us Online At <EstillTribune.Com>

Puzzle Answers

August 26, 2015

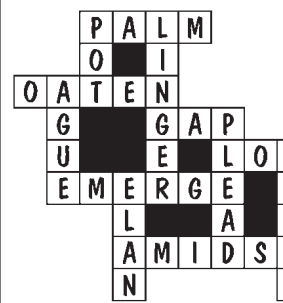
Puzzles4Kids

Answer

SATURN	A	RUNTS
TOWERS	T	WORSE
THOMAS	A	MOTHS
BOXERS	X	ROBES
RUSTIC	I	CRUST
SECURE	C	REUSE
HATING	A	THING
BARLEY	B	RELAY
ABSORB	B	BOARS
CROAKS	A	ROCKS
FRIDGE	G	FRIED
BAWLER	E	BRAWL

FEAR & KNIGHT

answer

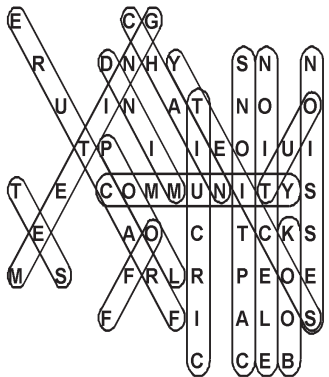


Letter Box

Solution

L	A	F	O	I	S	W	B	H
S	I	H	B	L	W	F	A	O
O	W	B	A	F	H	I	L	S
B	S	L	W	O	I	A	H	F
A	F	I	S	H	B	O	W	L
W	H	O	F	A	L	B	S	I
F	B	W	L	S	O	H	I	A
I	O	S	H	B	A	L	F	W
H	L	A	I	W	F	S	O	B

CLOSED —



CryptoQuote

answer

A fool may have his coat embroidered with gold, but it is a fools coat still. Rivarol

CryptoQuote

answer

A fool may have his coat embroidered with gold, but it is a fools coat still. Rivarol

Even Exchange

answers

1. Pellet, Pullet
2. Coach, Conch
3. Hoover, Hooper
4. Sheet, Sweet
5. Lobby, Hobby
6. Barter, Banter
7. Flint, Fling
8. Shack, Stack
9. Outfit, Outwit
10. Putty, Patty

Weekly SUDOKU

Answer

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

King Crossword

Answers

Solution time: 24 mins.

O	P	E	C	R	O	P	E	L	A	T	
N	E	A	R	A	V	O	W	I	V	Y	
U	R	S	A	C	A	L	E	E	E	K	
S	U	E	Z	I	L	K	C	U	R	E	
B	A	R	Q	U	E	S	E	A	B	E	D
A	L	E	U	T	A	Z	U	R	E		
H	E	G	I	R	A	D	R	Y	D	E	N
L	E	D	A	S	H						
B	U	S	T	J	A	W	O	G	L	E	
A	R	T	J	U	D	D	R	E	A	L	
E	G	O	J	O	R	A	L	S	L	E	
R	E	P	G	E	R	E	E	D	D	O	

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Whole Processed Hog \$440⁰⁰

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

ANSWERS (1) New; (2) Joseph; (3) Bethlehem; (4) 4; (5) Job; (6) Joseph; (7) 3; (8) Bethlehem; (9) 4; (10) 4