

Now is the time for those fireflies

Likely as children, we all collected fireflies in a jar and took them to bed to light up our rooms on a warm summer night. I remember getting my parents to puncture the lid of a mason jar so the magical insects could breathe. Well, it turns out that all that light flashing was about love. So, as you enjoy summer evenings outside maybe take a second look at all that firefly flashing in a different light.

Researchers at Tufts University and Brigham and Woman's Hospital have been observing the flashes of fireflies for more than two decades now and what they have uncovered may surprise you. The bioluminescence of the male firefly is his way of telling the female firefly that he is a worthy lover. Fireflies, which are actually beetles, spend their entire lives looking for love.

Female fireflies are rather promiscuous, mating with dozens of males in her lifetime and simultaneously carrying eggs from many different fathers. She can control how many eggs are fertilized by her mates and she proves to be quite choosy, looking to a male's flash pattern as an indicator of virility. There are hundreds of different firefly species worldwide and sev-

eral out in the yard on any given night. The flash pattern also helps the species locate their own in a field of flashing singles looking for love.

In 2003 Sara Lewis, an evolutionary biologist at Tufts University, and her graduate student Christopher Cratsley set out to understand the meaning of the firefly's flash and what they found was a direct link between

flash patterns and the "nutritional gift" the male gave to the female. Lewis explains that the "nutritional gift" is communicated in a male firefly's flash code. Far from random, these flash codes tell females that the male is of her species, is ready for her and has a "nuptial gift" that contain sperm and nutrition. This is where the code is important because the nutritional component is crucial for the eggs to develop because the firefly eats nothing in its adult stage. According to Lewis' research the duration of the male's flash is a predictor of the quality of the nuptial gift. More sperm and more nutrition mean more babies.

The science of it all is interesting and important as well. Bioluminescence has been understood for a long time now, but new light has been shed on the role nitric

oxide plays. In humans, nitric oxide acts as a messenger in the body, controlling the flow of blood and aiding in memory in learning; in fireflies it is the key component in controlling the flash of the abdominal

lantern, it acts as the on-off switch.

In the lab researchers were able to determine that the abdominal lantern is dark and at rest while the mitochondria consumes the oxygen that is present in the

cells (apparently mitochondria eat up oxygen quickly). When nitric oxide is produced it basically steals the oxygen from the mitochondria and the lights go on. It all happens in a split second and the beetle's nervous

system keeps the flash code going all night long.

A firefly's flash or a peacock's feathers; it seems that humans are not the only ones that try to attract a mate by being a bit flashy!



JENEEN WICHE

KIDS

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schools, nutritious food, meaningful relationships, and opportunities to learn, play, and grow. That calls for action from local community leaders ranging from the faith community to the business community, from neighbors and grandparents, from pediatricians and policeman. I have deep confidence that those community supports are happening in vibrant ways in every core of our state. But let me affirm – the seminal move ahead can come only if our elected leaders in Frankfort match their rhetoric with action," said Brooks.

Redline Auction Service Equipment Consignment Auction

on the farm of Burning Daylight Farm

Saturday | July 19, 2025 | 9:30 A.M. EST

2441 Plum Ridge Rd. | Taylorsville, KY 40071

Please make plans to attend and consign to this auction. WE ARE NOW TAKING CONSIGNMENT FOR THE JULY 19 SALE. We will be receiving consignment starting June 30. Agriculture equipment, construction machinery and lawn care equipment will be accepted until July 16th at 4:00 P.M.

TO START CONSIGNING CONTACT DEWAYNE 270-392-0285 OR MICHAEL SMITH 502-817-3250.

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NOTICE TO ANDERSON COUNTY TAXPAYERS

Jason Denny, Anderson County Clerk and the Anderson County Fiscal Court, pursuant to KRS 424.130 announces that the 2024 Delinquent Real Estate Property Tax Bills (Certificates of Delinquency) will be sold on August 22, 2025 starting at 10:00 a.m. at the Anthony D. Stratton Building (Basement) 1026 County Park Road. A complete list of the 2024 Delinquent Tax Bills will be published in the Anderson News on July 17, 2025. The list including procedures and requirements will also be posted on the Anderson County Clerk's website at:

<http://andersoncountyclerk.ky.gov>

The list will be available for public inspection at:

Anderson County Clerks Office
100 South Main Street
Lawrenceburg, KY 40342
Monday 8:00 a.m. - 6:00 p.m.
Tuesday- Friday 8:00 a.m.- 4:30 p.m.
(502) 839-3041 / Fax (502)839-3043

TAXPAYERS CAN PAY THEIR DELINQUENT TAX CERTIFICATES UP UNTIL 1 HOUR BEFORE THE SALE AT THE ANDERSON COUNTY CLERKS OFFICE ANY PAYMENTS RECEIVED AFTER THAT TIME WILL BE RETURNED WITHOUT EXCEPTION
CERTIFIED CHECKS OR MONEY ORDERS ARE REQUIRED AFTER JUNE 30TH.

REGISTRATION REQUIREMENTS

All Third Parties must register with the County Clerk's Office. The following information shall be provided:

- Potential Purchaser's Name
- Mailing Address (physical and P.O. Box)
- Telephone Number
- Contact Persons Name
- Proof of Registration with the Department of Revenue.
- Potential Purchasers must sign an affidavit affirming that they are not related to any other individual and are not affiliated with any other entity that will be participating in the sale.
- A Non-Refundable Registration Fee of \$ 10.00 per Certificate is required before the List of Certificates is accepted. A non-refundable Registration A Non-Redundable Registration Fee of \$ 5.00 per Certificate is required for Prior Year match Certificates before it is accepted. A SEPARATE CERTIFIED CHECK OR MONEY ORDER IS REQUIRED. There is a \$250.00 cap.

(Forms can be obtained in our office during normal business hours)

Any Third Party Purchasers that have Prior Year Certificates that wish to purchase 2024 Tax Bills that relate to that property shall submit a list on or before **August 12th**. The list shall be clearly identified as a prior year certificate of delinquency list and shall include the following information:

- The current year's tax bill number
- The prior year claim's tax bill number
- The prior year claim's tax year
- The book and page numbers where the prior year claim is filed, if applicable
- The account or parcel identification number, if applicable
- A copy of the prior year certificate of delinquency
- A Certified Check or Money Order for the TOTAL purchase amounts of those tax bills listed and \$ 30.00 for filing each certificate.
- Completed Registration Form.
- Department of Revenue Form 62A370 if buying more than 3 bills in Anderson, 5 bill statewide or spending more than \$ 10,000.00 in general.

All other Third Parties Purchasers shall submit a list on or before **August 12th** of the tax bills in which they wish to purchase. The list shall contain the following information:

- The tax bill number
- The taxpayer name
- The amount due on the certificate of delinquency
- A total amount of all certificates of delinquency
- A Certified Check or Money Order for 25% of the total purchase amounts of those tax bills listed plus \$ 30.00 for filing each certificate.
- Completed Registration Form.
- Department of Revenue Form 62A370 if buying more than 3 bills in Anderson, 5 bill statewide or spending more than \$ 10,000.00 in general.

There will be a drawing at 10:00 a.m. on August 22, 2025 to determine the order in which Third Party Purchasers will be able to select their 2024 tax bills. Third Party Purchasers will be allowed to select 1 certificate of delinquency during each round. Each round will proceed until all certificates of delinquency are sold or until no Third Party Purchasers are interested in any more certificates.

The Anderson County Clerks Office is not responsible for Bankruptcies that might be filed against these Delinquent Tax Bills. All Third Parties need to research all tax bills in which they plan to buy.

Any changes to the procedures will be announced the morning of the sale.

Please feel free to contact our office with any questions that you may have.

Additional Interest will be applied to these bills on August 1, 2025.

Jason Denny
Anderson County Clerk