

THE ENVIRONMENTATOR

Ah...



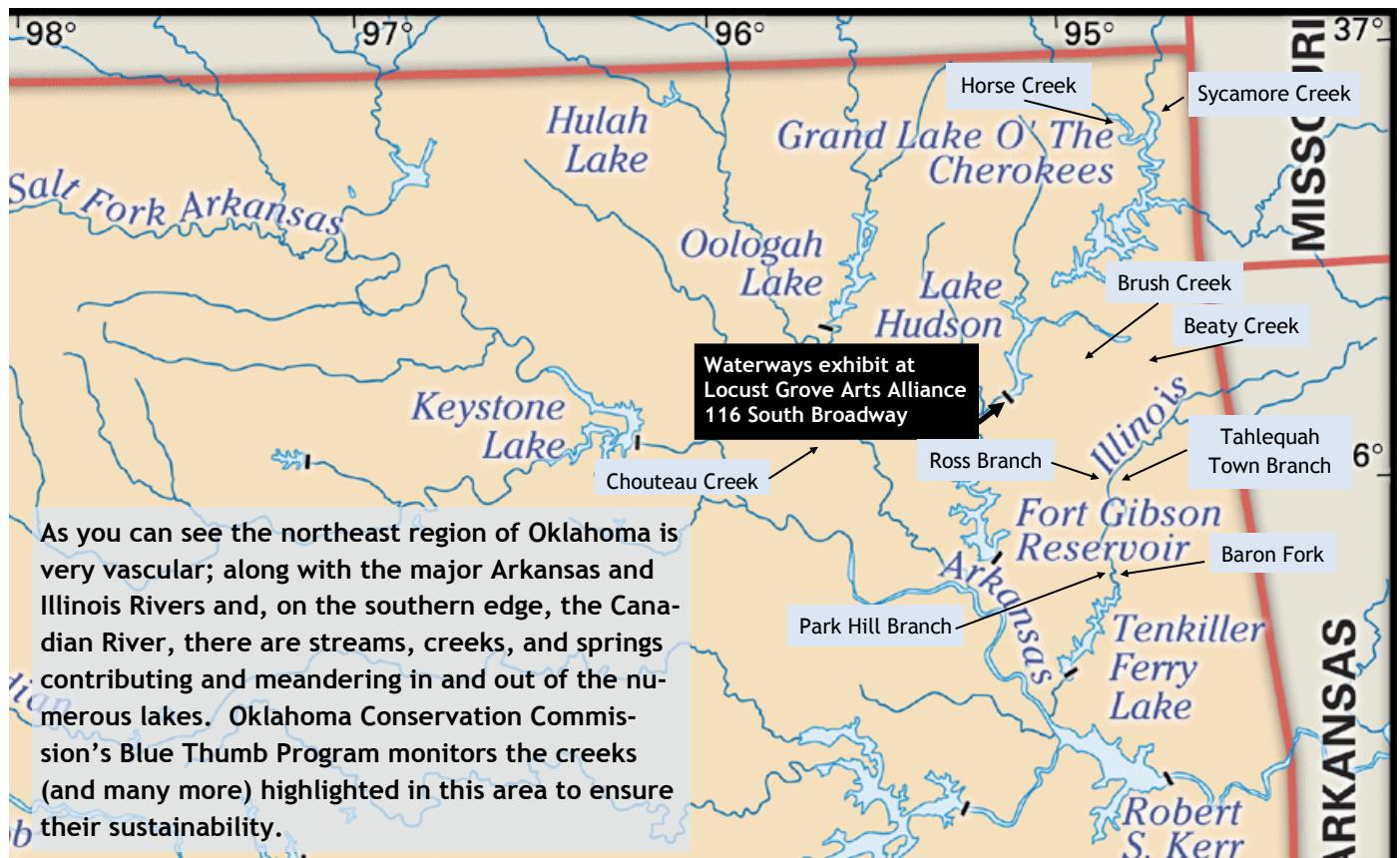
autumn

Vol. 8, No. 2. The Internet Site for Environmental Information in Oklahoma

October 2019 - November 2019

MUSEUM
on Main Street

Water Ways



OKLAHOMA
HUMANITIES

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Check out the
Hunter's Moon,
October 11, 12
and 13.



Photo by Ken Christison

Quiz!! Quiz!! Quiz!!

Thank you to Salt Plains National Wildlife Refuge for this issue's quiz.



For the answer to this Quiz!! and more information, see Page 6.



An environmental education newsletter for the citizens of Oklahoma sponsored by the Department of Biology at Oklahoma City University. Items appearing in this newsletter do not necessarily reflect the opinions or endorsement of the sponsoring organization.

Editor: Beth Landon
blandon@okcu.edu

Please send any submissions to
The EnvironMentor Newsletter
or The Calendar to:
Environmentor@okcu.edu

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announcing when a new issue
has been uploaded, please send
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pdf form from:
<http://www.okcu.edu/environmentor>

Visit The EnvironMentor Calendar at
<http://www.okcu.edu/environmentor/>
Regularly updated as information becomes
available.



"The Water/Ways Museum on Main Street exhibit... helps cultivate conversations among Oklahomans about the importance of water in our lives."

**Dr. Mark Davies, OCU
State Scholar for Water/Ways**

Sponsored in part by :

Beaver Express and The Chickasaw Nation

“Five Oklahoma communities (the Norman exhibit is happening now), in cooperation with Oklahoma Humanities, will explore aspects of our state’s water as they host the local showing of *Water/Ways*, a Smithsonian Institution traveling exhibition beginning in July 2019.

Water is an important element in American culture. We are drawn to water for peace and contemplation. The sights and sounds of water make us feel connected to nature. Many faiths revere water as a sacred symbol. Authors and artists are inspired by the graceful ways in which water flows, but also by its unstoppable force.

Water has also played a vital role in our society. Water routes made significant impacts on our settlement and migration patterns. We use it for manufacturing and agriculture and economic planning. *Water/Ways* examines the many ways in which we use water and how we can sustain it for the future. Complementary programs in each community will highlight local connections to water.”



Smithsonian
Institution



OKLAHOMA
HUMANITIES



BrainBox
A Podcast for your noggin

Locust Grove -- October 21, 2019 - December 8, 2019

Locust Grove Arts Alliance

Locust Grove VFW Post 3573

116 South Broadway

(918) 530-1902

Heavener -- December 17, 2019 - February 8, 2020

Fort Towson Historic Site

HC 63, Box 1580

Fort Towson, OK 74735

(580) 873-2634

Altus -- February 17, 2020 - April 12, 2020

Museum of the Western Prairie

1100 Memorial Drive

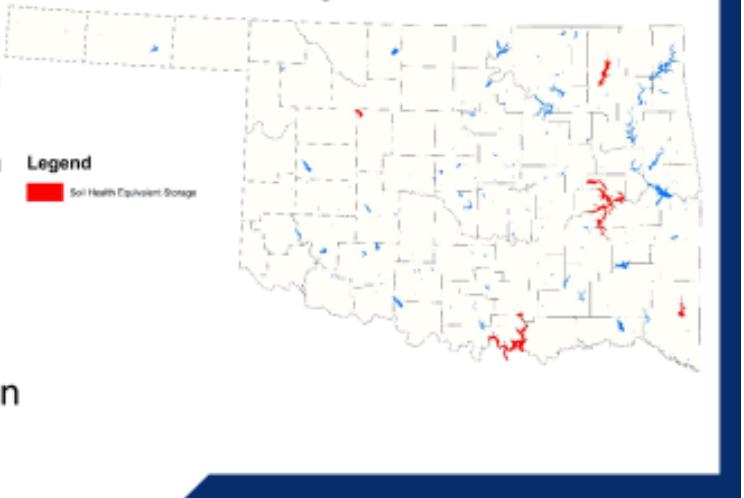
(580) 482-1044

<https://museumonmainstreet.org/content/waterways>

Thank you Oklahoma Conservation Commission: Benefits of Soil Organic Matter

- Increase organic matter by 1% in cropland and pastureland soils and by 0.5% in rangeland soils- increase water holding capacity:
 - In areas affecting Tulsa by 463 billion gallons
 - In areas affecting Spiro by 811 billion gallons
- That's like building additional reservoirs the size of Oklahoma's four largest - Texoma, Eufaula, Oologah, and Broken Bow, and then also adding another Canton Lake

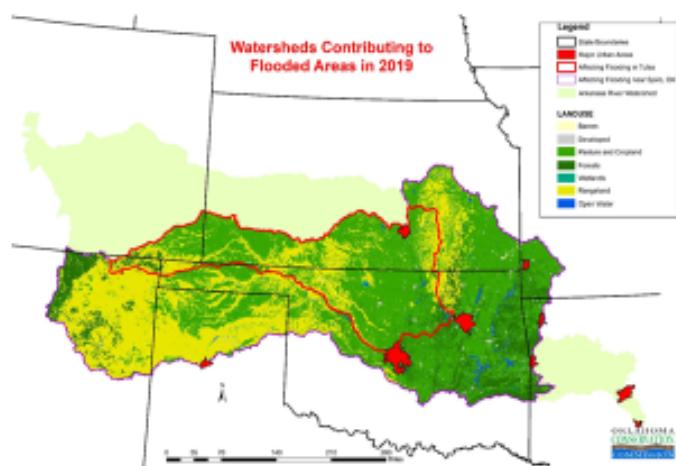
Increasing Soil Organic Matter is Like Building New Reservoirs



"Think about this for a moment. What if we could take steps to increase organic matter in cropland and pastureland, as well as in rangeland soils that would increase the water holding capacity so much in the Arkansas River Watershed that it would be like building additional reservoirs the size of Oklahoma's four largest, plus one – Texoma, Eufaula, Oologah and Broken Bow, and add in Canton Lake. Trey Lam, Executive Director of the Oklahoma Conservation Commission, presented this information and much more while speaking ... at an Arkansas River Flooding Interim Study.

Lam said that if we, 'Increase organic matter by 1% in cropland and pastureland soils and by 0.5% in rangeland soils' the increase in water holding capacity would 463 billion gallons in areas affecting Tulsa and 811 billion gallons in areas affecting Spiro."

Watershed Areas Contributing to Flooding

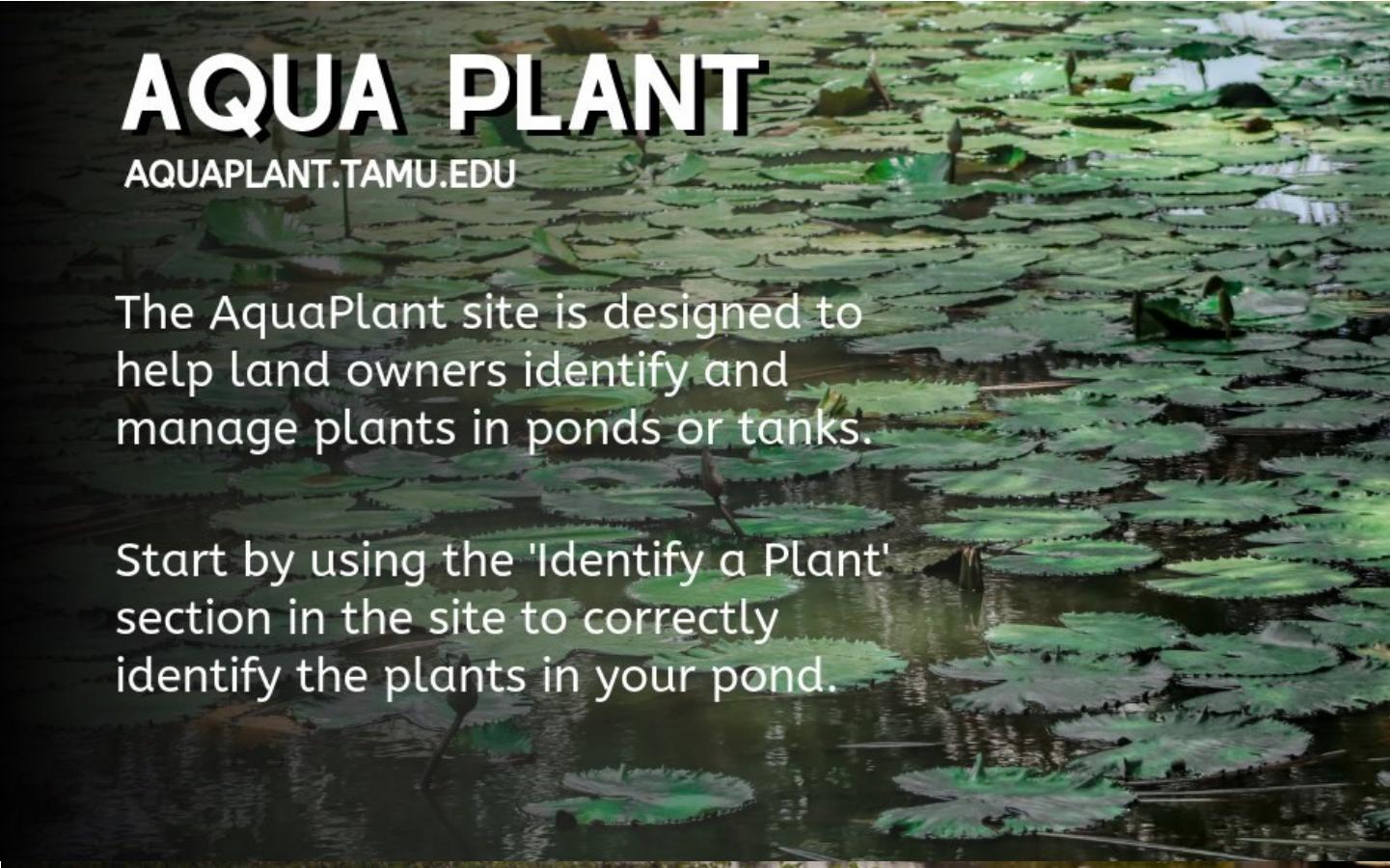


- Arkansas River Watershed- 161,000 square mile area
- Arkansas River between Wichita and Tulsa (red outline)- ~36,000 square miles- 66% crop and pastureland, 28% rangeland
- Arkansas River Basin between Tulsa and Stateline (purple outline)- ~82,000 square miles- 43% crop and pastureland, 38% rangeland

We've lost at least half of the organic matter in Oklahoma Soils, dropping from 5-6% to 1-3%

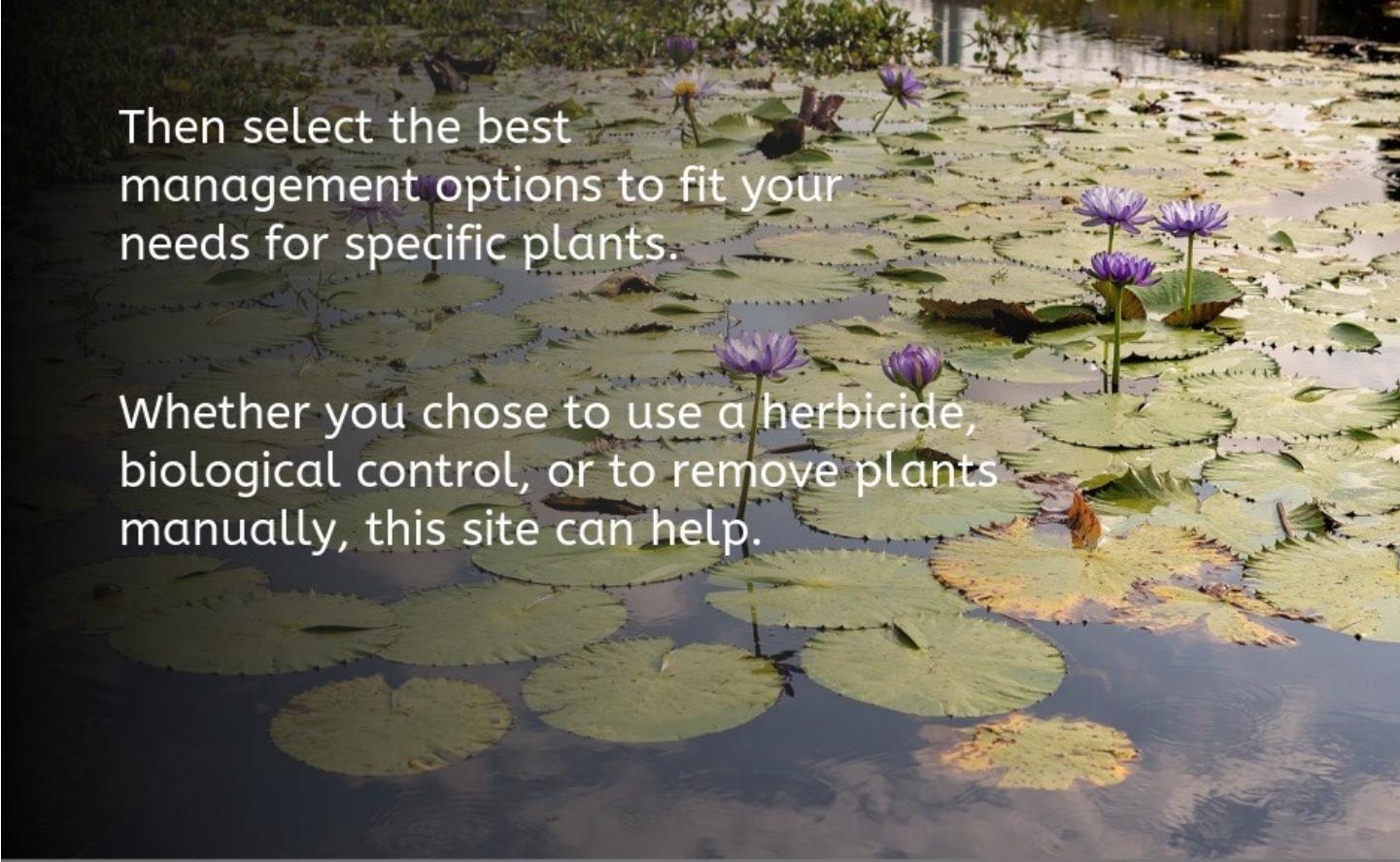
AQUA PLANT

AQUAPLANT.TAMU.EDU



The AquaPlant site is designed to help land owners identify and manage plants in ponds or tanks.

Start by using the 'Identify a Plant' section in the site to correctly identify the plants in your pond.



Then select the best management options to fit your needs for specific plants.

Whether you chose to use a herbicide, biological control, or to remove plants manually, this site can help.

HIKING ETIQUETTE

IN YOUR NATIONAL PARKS

KNOW YOUR RIGHT OF WAY

Check signage for the trail you're hiking, and follow the correct right of way yields. Generally, hikers coming uphill are breathing heavily but have the right of way. If you're descending the trail, step aside, judge hikers accordingly, and give space to the people climbing up.

MAKE YOURSELF KNOWN

When you encounter other hikers and trail users, offer a friendly "hello" or a simple head nod. Try not to be creepy about it. This helps create a friendly atmosphere on the trail. If you approach another trail user from behind, announce yourself in a friendly, calm tone and let him/her know you want to pass. Yelling "BEAR" and "RUN" is not helpful.

STAY ON THE TRAIL

Don't step off trail unless you absolutely must when yielding. This includes impromptu dance-offs with fellow hikers. Going off trail can damage or kill certain plant or animal species, and can hurt the ecosystems that surround the trail. So can bad dancing.

LEAVE NO TRACE

Always practice Leave No Trace principles: Leave rocks, vegetation, and artifacts where you find them for others to enjoy. Do you stack rocks in your backyard? Also, animals should remain in park.

DO NOT DISTURB WILDLIFE

They need their space, and you need yours, too. Just like you with your ex, keep a safe distance from any wildlife you encounter. Some parks require you to stay a certain distance from wildlife, so check park regulations before your visit.

READ THE SIGNS

Never leave the trail to try and get a closer look at an animal because it can hurt the habitat and the animal and put you in danger. Oh, you need a sign? It's over there. And there. There's one! Did you see that one?

TAKE TIME TO LISTEN

When hiking in the great outdoors, let nature do the talking. We said be quiet! Not only will other visitors appreciate the peace, but so will the wildlife. Why are you still talking? Many wildlife species rely on natural sounds for communication, and disrupting those sounds can hurt their chances of survival, or at the very least result in extreme eye rolls from animals the likes you haven't seen since...well, earlier from your family.

BE AWARE OF SURROUNDINGS

Always be aware of your surroundings when hiking in national parks. It will help keep you and any members of your group safe, and it will help keep wildlife and their habitats safe and healthy. You're not lost. You're still in the parking lot.



When in doubt about something just remember the "golden rule" — treat other trail users how you want to be treated, and respect the wildlife and lands of our great national parks.

The Answer to Quiz!! Quiz!! Quiz!!

From Salt Plains National Wildlife Refuge:

The largest of the true bugs, wheel bugs or assassin beetles are beneficial predators for many garden and woodland insects. They also have a very painful bite.

Why the name?

Assassin bugs are named that way because of the proficient predatory life style. They are waiting for the prey in ambush, but once the prey is identified - chances of escape are minimal.

Mouths of assassin bugs are designed for piercing and sucking of juices from the victim's body. They have a beak composed of three segments and a single tube through which assassin bug transfers its poisonous saliva.

Kingdom: Animalia
Phylum: Arthropoda
Class: Insecta
Order: Hemiptera
Family: Reduviidae
Genus: *Arius*
Species: *cristatus*

NPS.GOV

If you like your Halloween stories gross, you'll appreciate Burying Beetles. These sweeties help clean up our environment by burying small dead animals (birds etc.) as food for their offspring. Indeed I found a hatch-out of Sexton Burying Beetles (*Nicrophorus orbicollis*) under a bush in my back yard, polishing off a mouse carcass.

N. orbicollis is common in Oklahoma but the larger American Burying Beetle (*N. americanus*, fondly called ABB) is critically endangered, so federal law requires that land where ABB might live must be surveyed before highways, construction, or pipelines can be built. This mandate sometimes causes resentment from land owners or developers! Meanwhile, scientists are discovering some surprising things about these beetles.

Facttale: Here is a true story from Stephanie Rainwater, who seeks ABBs in her work with an Oklahoma civil engineering consulting firm. She wrote:

"A company wants to build a pipeline between Tulsa and Cushing and they need to obtain a permit from the Corps of Engineers. To get that permit, they have to demonstrate that they are complying with the Endangered Species Act by either not impacting the beetles because they are proven to not be there, or by mitigating the impacts if they are there. We determine if they are there, then quantify the mitigation if they are."

"I had a long, interesting call with a curious Creek County resident today. He now loves American Burying Beetles:

Me: Look, I get it. Can I tell you this beetle does some miraculous thing that absolutely no other species does? No, not exactly but let me tell you about what they do to their carrion.

Him: I'm listening.

Me: They de-feather/de-fur it then coat it with a mixture of oral & anal secretions that inhibits further decay as well as the growth of mold and bacteria. They preserve meat without refrigeration so it is available when their babies hatch. Now let's talk about our soldiers.

Him: I love our troops.

Me: I know you do. Think about our troops in the desert. They have no refrigeration and they need protein. How is it currently preserved? Dehydration and/or unspeakable amounts of sodium. What do our soldiers need a lot of in the desert? Water. What does a high sodium diet make one need more of? Water. What can serve as a huge target in conflict areas? The huge tanks of water needed to keep our soldiers alive. If there is something we could learn from these beetles to minimize the quantity of water our soldiers need and improve their accessible diets, don't you think we should do it?

Him: YES!!! Let's make this beetle stuff. Who is making it? Let's get it made.

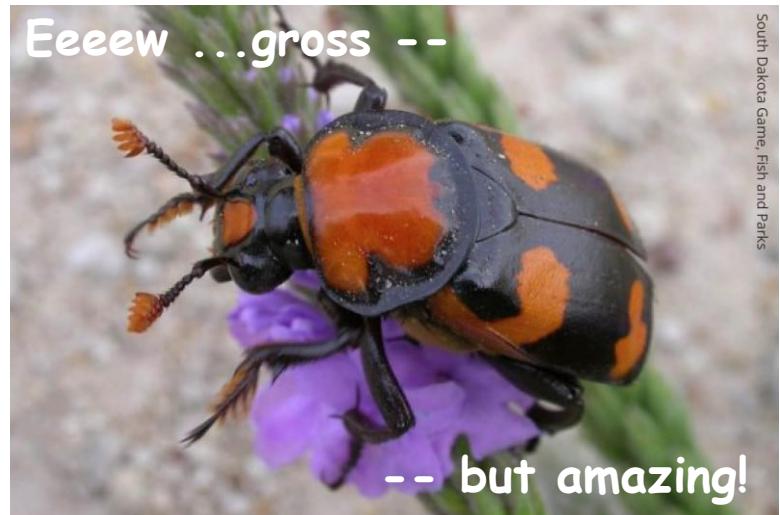
Me: We don't know how to make it yet but researchers are actively trying to figure it out. The thing is, if this beetle went extinct before the answers are found, what then? What if other species that have already gone extinct had answers for us that we never discovered?

Him: *long pause* I love this beetle. We need to save this beetle. I love our troops and I love this beetle and I'm really going to think twice before I stomp on any more of them.

Me: Good. You have a great night.

Him: You too. Thank you for telling me all of that."

(Continued on Page 8)



From The Earthteller,

Fran Stallings

(Continued from Page 7)

FACTS:

With their tufted antennae, burying beetles can sniff a dead mouse from as far away as two miles. Together, a male and female pair carry the carcass to a suitable grave by moving under it. Then they dig the soil from under it, piling the loose soil on top until they have buried it safe from maggots and other scavengers. They remove the feathers or fur, coat the flesh with their antimicrobial secretions, and then mate. The female lays her eggs on top of the body. The parents even stay around to care for the larvae, feeding them on pre-chewed carrion. (How's that for "Eeww"?) When the larvae pupate, the parents' job (and lifespan) is finished. About a month later, the new adult beetles emerge and overwinter, ready to clean up carrion the next spring.

Soil bacteria and fungi would rot a buried carcass before the beetle eggs could hatch, the larvae grow and pupate. But the parent beetles' secretions protect the carcass for their offspring, and some research is also finding anti-microbial activity in secretions of the larvae as well.

Researchers find that the beetle secretions contain high concentrations of lysozymes – enzymes that can break up the walls of gram-positive bacterial, destroying them. Work has barely begun on figuring out how to produce a lot of this, or whether we can use it to preserve our food too! But we need to protect this endangered species so that we can continue to learn from it.

SOURCES:

Stephanie Beard is Environmental Director at GUY Engineering, Tulsa and OKC.

See her working with ABBs in <https://vimeo.com/166833617>.



Larvae from The Medium

Dr. Wyatt Hoback, Assistant Professor of Entomology & Plant Pathology at Oklahoma State University, is one of the scientists studying the secretions of the endangered American Burying Beetle.

In England: Antimicrobial secretions and social immunity in larval burying beetles, *Nicrophorus vespilloides*. *Animal Behaviour*. August 15, 2013. Andres N. Arce, Per T. Smiseth, Daniel E. Rozen.

<https://www.wildlifedepartment.com/wildlife/nongamespecies/american-burying-beetle>

From More Prairie Time:

Texas Prairie in Oklahoma?

Just off Talimena Drive (Oklahoma Highway 1) a sign in the Sunset Vista pullout explains that the mountains where you are standing were once in Texas. Who knew?

[Click here to read the article!](#)



Ray Harral Nature Center

Conservation Fair

October 12th, 2019
10am–2pm

See how your local businesses,
organizations, and groups are making a
difference in your community!



FREE & for ALL AGES





SATURDAY
OCTOBER 26
10AM TO 2PM



NATIONAL WEATHER CENTER
120 DAVID L. BOREN BLVD.
NORMAN, OK

HOURLY BALLOON LAUNCHES DRONE DEMONSTRATIONS FOOD TRUCKS
EMERGENCY RESPONSE VEHICLE DISPLAYS ISSUE YOUR OWN TORNADO WARNING
TOUR SPC AND NWS NORMAN FORECAST OFFICES WEATHER-THEMED ARTS AND CRAFTS



SPONSORED BY:



4TH ANNUAL LAKE THUNDERBIRD WORKSHOP AND CLEAN-UP EVENT

October 27, 2019
1pm-4pm

Lake Thunderbird BoatHouse

*Head East on Alameda and then turn
left onto Indian Point Road and right
onto Boathouse Road*

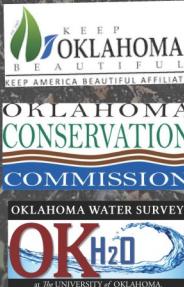
**Join us for a conversation on Lake Thunderbird
water quality and then help clean up the watershed!**

Get answers to questions such as:

- What is stormwater and how does it impact me and my community?
- How can I help protect our environment and water quality?

Supplies and snacks provided!

Prizes will be awarded!



For more information or to register:

Michele Loudenback

405-329-2524

michele.loudenback@normanok.gov

Blue Thumb

"Stream Protection Through Education"

VOLUNTEER HANDS ON TRAINING

Wonder City Coffee
118 E Main, Locust Grove

Day 1 November 2nd 8:30 am to 4:30 pm

INTRODUCTION TO BLUE THUMB

- Learn How to Use Educational Tools
- Receive Project Wet 2.0 Guide
(Water Activities and Resource)

Day 2 November 3rd 8:30 am to 4:30 pm

MONITORING

- Learn Ecology of Streams
- Conduct Water Quality Test
(local creek)
- Receive Healthy Water, Healthy
People Monitoring Guide

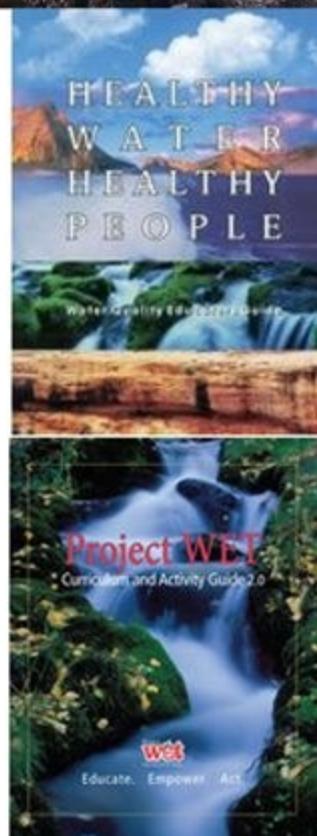
CONTACT US OR REGISTER

Day 1 - \$15

Day 2 - \$10

Register: www.bluethumbok.com

For more information contact:
candice.miller@conservation.ok.gov



**The 29th Annual Environmental Excellence Celebration
will take place at the
National Cowboy and Heritage Museum
Oklahoma City, Oklahoma
Friday, November 22, 2019**

Keep Oklahoma Beautiful, a statewide non-profit recognizes Oklahomans doing their part to help preserve the beauty and sustainability of this state. This year, over 37 individuals, communities, businesses, municipalities, state agencies and more from across the state will be recognized for their work in the past year.

Each year, KOB hosts the Environmental Excellence Celebration, where the public nominates groups and individuals for their efforts to benefit Oklahoma's environment. The nominations are presented to a panel of guest judges from the community, who determine finalists in various different categories.

Finalists for the Environmental Excellence Competition showed exceptional work in the following areas: education, conservation, beautification, sustainability practices, non-profit efforts, youth leadership, litter prevention, and more. For tickets or to book at the Holiday Inn OKC North:

[Keep Oklahoma Beautiful](#)

TEAM BUILDER

- KEEP BROKEN ARROW BEAUTIFUL
- CITY OF STROUD
- LORI JOHNSON, OKLAHOMA WATER RESOURCES BOARD
- CREATE ARDMORE & ARDMORE FIRE DEPARTMENT

VOLUNTEER COMMUNITY GROUP

- TRASHY FRIENDS AKA WARR ACRES RECYCLE PALS
- URBAN SOUL/EXTREME YOUTH MINISTRIES

YOUTH AWARDS

- JACKSON MEARS, COUNTRY LANE ELEMENTARY SCHOOL
- JACOB TRASK, MADILL CLEAN UP

LAW ENFORCEMENT

- LISA FORD BROKEN ARROW POLICE DEPT.
- SGT. E. PENCE, OKLAHOMA COUNTY SHERIFF'S DEPT.
- SHAWN COPELIN, POTAWATOMIE COUNTY

2019 EEC FINALIST

BUSINESS
LGR FARMS
REPUBLIC SERVICES

GOVERNMENT: TRIBAL & STATE

- CHOCTAW NATION RECYCLING
- PRISCILLA CRAWFORD, OKLAHOMA BIOLOGICAL SURVEY
- CITY TULSA, OKLAHOMA BLUE THUMB,
- TULSA ZOO, TULSA COUNTY CONSERVATION DISTRICT, THE M.E.T.

GOVERNMENT: MUNICIPAL - POPULATION LESS THAN 40, 000

- CUSHING PRIDE/CITY OF CUSHING
- CITY OF JENKS
- CITY OF STROUD
- OKMULGEE MUNICIPAL AUTHORITY
- OWASSO STRONG NEIGHBORHOOD INITIATIVE
- JAHNNA HILL, TAHLEQUAH STORMWATER SERVICE

GOVERNMENT: MUNICIPAL - POPULATION MORE THAN 40, 000

- JENNIFER SWEZEY, CITY OF BROKEN ARROW
- EDMOND VISUAL ARTS COMMISSION
- CITY OF NORMAN - STORMWATER
- CITY OF NORMAN - BREA CLARK PROJECT

NON PROFIT - MORE THAN 40,000

- OKC BEAUTIFUL
- ACOG
- MYRIAD GARDENS

K-12 EDUCATORS AND EDUCATIONAL INSTITUTIONS

- OK WATER SURVEY/OU
- OK RENEWABLE ENERGY EDUCATION PROGRAM
- TULSA PUBLIC SCHOOLS

NON- PROFIT 15,001 - 40,000

- ARDMORE BEAUTIFICATION COUNCIL
- SHAWNEE BEAUTIFICATION COUNCIL COMMITTEE
- LIFE CHURCH MCALESTER
- HEART OF ROUTE 66 AUTO MUSEUM

NON- PROFIT LESS THAN 15, 000

- ANADARKO CHAMBER OF COMMERCE
- GROVE BEAUTIFICATION COMMITTEE, GROVE
- AREA CHAMBER OF COMMERCE
- PHOENIX CIRCLE FOUNDATION
- ST. ANTHONY OF PADUA CATHOLIC CHURCH/ ST.
- MARY'S THRIFT STORE



Oklahoma Department of Wildlife Conservation



Upcoming Events Hackberry Flat Center—2019

Aug. 10—Bats of Oklahoma Traveling Exhibit 4pm-6pm

Nature At Night 7pm – 11 pm

Star Party 11 pm- ?

Early October—Monarch Watch Dates & Times TBA

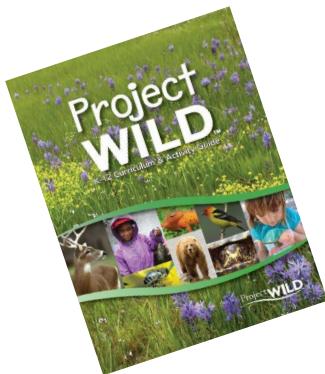
Nov. 9— Wetland Tour 1pm - 3:30 pm

**December 14—Wings Over the Wetland Program
Hands-on Activities for Families 9am—11am**

Tours require reservations. Due to length of tours and transportation, children must be at least 8 years old. There is no fee.

For more information go to: www.wildlifedepartment.com

Or Melynda.hickman@odwc.ok.gov or 405-990-4977



October 19: Project WILD at UCO in Edmond from 9 a.m. to 3 p.m.
To register, contact Lisa Anderson at okprojectwild@fullnet.net



October 5: Growing Up WILD at ECU in Ada from 9 a.m. to 3 p.m.
To register, contact Teresia Harrison at termhar@ecok.edu

October 26: Growing Up WILD at UCO in Edmond from 9 a.m. to 3 p.m.
To register, contact Lisa Anderson at okprojectwild@fullnet.net



General Workshop Information

- You must pre-register for all workshops. Contact the person listed to register for a workshop.
 - The workshop fee is \$20 per person.
 - Workshops are designed to be interactive and hands-on. Please be prepared to participate in the activities.
 - An* after the time indicates a working lunch, where participants bring lunch and work on assignments as they eat. You will need to bring a sack lunch as you will not have time to go out and get lunch.
 - Dress casually, comfortably and appropriately for the outdoors. Some activities may be conducted outdoors, even if it is hot, cold or wet.
 - Workshops involve moderate physical activity. Special arrangements can be made for persons with disabilities. Please call (405) 990-1292 two weeks in advance if special arrangements need to be made.
 - Participants in college credit workshops must also pay for the college credit in addition to the workshop fee. Contact the university or college listed for costs on credit classes.
- If there isn't a workshop scheduled near you, check back at a later date or schedule a workshop for your area.

Not an Endorsement , but ...

Homemade Bottle Plant Spikes

"Sure, you can buy a pretty water spike or wick for your plants. But you can also save yourself a few bucks and make your own using materials you likely already own."

"Clean a bottle with a tapered neck and its cap with a 10 percent bleach and water solution. Rinse well with water. A small soda-size bottle works well for houseplants, while a larger, 2-liter bottle works better for shrubs and larger plants. Use a large bottle also if you are unable to refill a smaller bottle in a timely manner. Drill a small, nail-size hole, such as 1/4 to 3/8 inch in diam-



<https://homeguides.sfgate.com/homemade-bottle-plant>



Audubon

"You can hang Audubon's prints in your home for **free!** Browse all 435 vibrant images from Birds of America, then download your favorites in crisp, clear high resolution—ready to be printed, framed, and enjoyed."

"High-resolution images courtesy of the John James Audubon Center at Mill Grove, Audubon, PA, and the Montgomery County, PA, Audubon Collection. [Learn more about the John James Audubon Center.](#)"

[Click here to go to the image website!](#)

Do you have 5 minutes to view:

STEMtember Arbioculture

Brought to you by:



"Are you planting your STEM roots? In this STEMtember video, KRMG'S April Hill explores the science of trees with Taylor Melone of Up With Trees. Can you plan a healthy urban forest?"

UP WITH TREES

GREEN LEAF GALA

Planting Tulsa's Legacy

Friday, October 4, 2019

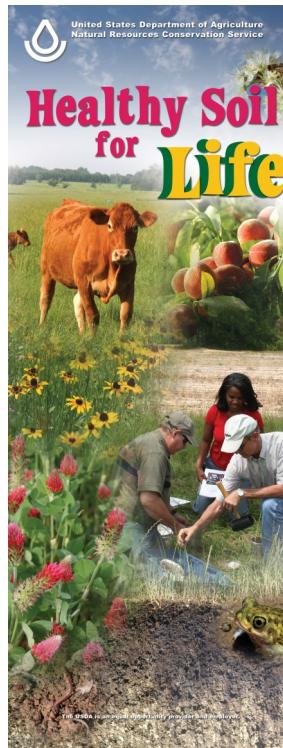
6:00 PM

The Mayo Hotel

115 W 5th St, Tulsa, OK

For tickets:

<http://www.greenleafgala.org/>



Soil Health Assessments, Advantages of Soil Testing and Cover Crops & Grazing Systems will be among the topics during the

Free Conservation Workshop and Lunch.

The workshop will be presented by the Quapaw Nation and the Ottawa Conservation District, the Natural Resources Conservation Service (NRCS) and several great partners.

Who: Open to the Public

When: November 18 at 11 a.m. (Pre-registration at 10:30 a.m.) **RSVP DUE November 13th** by calling Michael Ramming, NRCS, (918) 542-4576, ext. 3 or Mitchell Albright, Quapaw Nation, (918) 238-3099, ext. 4051, or by emailing Dr. Carol Crouch carol.crouch@usda.gov

Where: Inter-Tribal Council Conference Room located at 21 N.S. "8" Tribe Trail, in Miami, Oklahoma



"Blue Thumb's Cheryl Cheadle meets the Tulsa Drillers' mascot Hornsby. Cheryl got the opportunity to throw out the first pitch at the 8/7/2019 home game, thanks to the City of Tulsa's "Save our Streams" program. Cheryl got to pitch for clean streams and rivers all across Oklahoma!"

Selenite Digging

at the



A UNIT OF THE
National Wildlife
Refuge System

Salt Plains National Wildlife Refuge

It's open again: April 1 -- October 15

"Pink sunrise, white surface, white almost as far as the horizon on the first official day of crystal digging at the Salt Plains National Wildlife Refuge.

It was a cold Monday morning on the first day of April and our idea was to catch the very first digger through the gate and onto this surreal 10,000 acre site, a huge salt flat near Cherokee, Oklahoma. It's home to wild birds and a unique crystal that grows just beneath the surface."

Read the rest of the article at:

<https://kfor.com/2019/04/01/the-first-crystal-digger-of-2019-at-the-salt-plains-is-none-other-than-selenite-sam/>



**The Oklahoma Envirothon
takes place on:**

Friday, March 27, 2020

The 2020 Theme:

Water Resources Management:

Local Control

and

Local Solutions

For more information about the competition and study guides click on this URL:

<http://www.oklaenvirothon.org/>



*Saving the intricate fabric of life
... one thread at a time.*

The WildCare Foundation is a supporting organization with the following mission:

"Our mission is to provide people a place to bring native wildlife struggling to survive with the goal of releasing healthy individuals back to nature."

The homepage for the Foundation is:

<http://www.wildcareoklahoma.org/>

Part of what they do is to publish a quarterly newsletter. The issue is available at the following URL:

The archive is available at this URL:

<http://www.wildcareoklahoma.org/index.php?news>



WWW.IRWP.ORG

Editor's Note: This organization is not in Oklahoma, but it is just over the border with Arkansas and has some attention-grabbing events which might be of interest to Oklahomans such as the one below.

To access their website click: <http://irwp.org/>



Location: 602 N. HWY 59, Siloam Springs, AR 72761

For more information and to RSVP,

P.O. Box 8506 • Fayetteville, AR 72703 • Email: contact@irwp.org

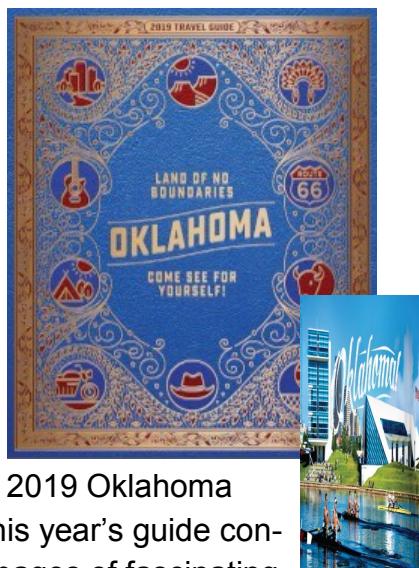


FREE

2019 Oklahoma Travel Guide

Start planning your Oklahoma vacation with the 2019 Oklahoma Travel Guide. This year's guide contains nearly 200 pages of fascinating museums, only-in-Oklahoma restaurants, stunning state parks, Route 66 roadside attractions and more, along with directories of attractions and lodging. Packaged with the official state map, it's the perfect companion for all your Oklahoma adventures.

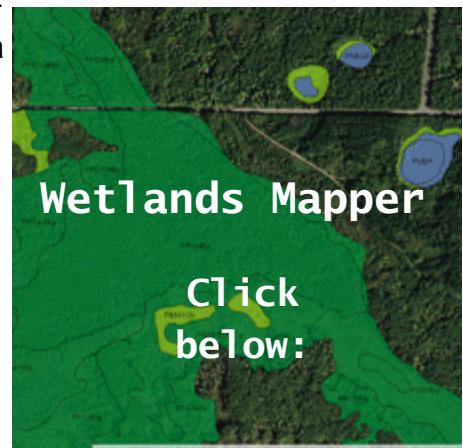
<https://www.travelok.com/brochures>



OKSciOly Training Conference

Saturday, October 5, 2019, 7:30 AM check-in
Howell Hall, University of Central Oklahoma
100 N. University Drive, Edmond, OK 73034
(Check-in begins at 7:30 with opening session at 8. Coffee, bagels provided in the morning. Lunch provided during a working lunch. This workshop is for all OKSciOly Team Coaches and Event Supervisors and will review the catalog of 2020 Science Olympiad events with special breakout sessions for Event Supervisors and new Coaches. Registration is required. <http://www.oksciolympiad.org/> The conference is all day and is free.

This Wetlands Mapper, from the US Fish and Wildlife Service, was found in the latest Oklahoma Wetlands Program Bulletin. This Mapper "integrates digital map data along with other resource information to produce current information on the status, extent, characteristics and functions of wetlands, riparian, and deepwater habitats." There is a bit of training needed to operate it properly, but there is a step-by-step process with a manual and a video to help you.



https://www.fws.gov/wetlands/Data/Mapper.html?utm_content=&utm_medium=email&utm_name=&utm_source=govdelivery&utm_term=

On February 23, 2013 The EnvironMentor dipped a toe into social media. We made this decision because, at this time, there are two to three months between issues of the Newsletter. During this past gap an important event had an application deadline of April 1st so an announcement went out from Facebook. We won't bother you with anything trivial, so ...

“Like” The Environmentor on Facebook!!



QUIList Oklahoma

Leopold Education Project

[http://www.aldoleopold.org/Programs/
lep.shtml](http://www.aldoleopold.org/Programs/lep.shtml)

Type in Oklahoma

Oklahoma Blue Thumb

<http://bluethumbok.com/>

Oklahoma Blue Thumb Association

ok.bluethumb.association@gmail.com

Oklahoma Envirothon

<http://www.oklaenvirothon.org/>

Oklahoma Green Schools

<http://www.okgreenschools.org/>

Oklahoma Master Naturalists

<https://okmasternaturalist.wixsite.com/website>

Oklahoma Native Plant Society

<http://oknativeplants.org/>

Oklahoma Recycling Association (OKRA)

<http://www.recycleok.org/okra/>



10301 South Sunnylane Road
405-814-0006

[http://
www.museumofosteology.org/](http://www.museumofosteology.org/)
Monday - Friday 8 a.m. - 5 p.m.
Saturday 11 a.m. - 5 p.m.
Sunday 1 p.m. - 5 p.m.

Project Learning Tree (PLT)

<http://www.plt.org/>

<http://www.forestry.ok.gov/project-learning-tree>

Project WET

(Water Education for Teachers)

<http://www.bluethumbok.com/project-wet.html>

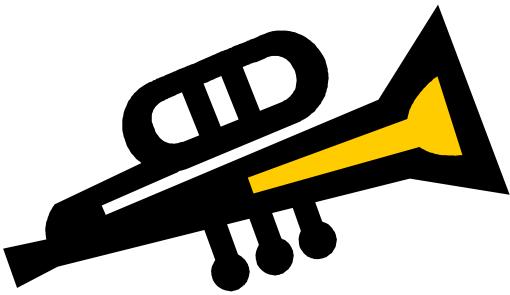
Project WILD

<http://www.projectwild.org/>

As with all hyperlinks in The EnvironMentor Newsletter, these are clickable.

Do you know an environmental group in Oklahoma that should be listed. Send that information to:

environmentor@okcu.edu



The Calendar

Most people who remember The EnvironMentor Newsletter know that the pages at the end of the issue were reserved for The Calendar. Being online has some great advantages. When you downloaded your copy of the newsletter you may have noticed the box on the right side of the webpage. This is a convenient listing of the next events from The Calendar. This will always be up-to-date because it happens automatically. For more information on the event just click on it and a window will open up with all the details. If you wish, you can access the rest of the calendar from the there.

To have your event posted to The Calendar, copy and paste the following list into an email, fill in as much information as you wish, and send it to: Environmentator@okcu.edu

Title of your event:

Start Date and Time

End Date and Time

Location

Location Address

Contact Name

Contact Phone

Contact Email

Details in Narrative Form

Location Link

Event Link

Map Link

Please note: We are not able to publish for-profit information.

To go directly to The Calendar click on:

<http://www.okcu.edu/environmentator>