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Xplor (ISSN 2151-8351) is published bimonthly. It is a publication of the Missouri Department of Conservation, 2901 West Truman Boulevard, Jefferson City, M0 (Mailing address: P0 Box 180, Jefferson City, M0 65102.) Subscription free to Missouri residents (one per household); out of state \$5 per year; out of country \$8 per year. Please allow 6-8 weeks for first issue. Notification of address change must include both old and new address (send mailing label with the subscriber number on it) with 60-day notice. Preferred periodical postage paid at Jefferson City, Missouri, and at additional entry offices. Postmaster: Send correspondence to Xplor Circulation, P0 Box 180, Jefferson City, M0 65102-0180. Phone: 573-751-4115, ext. 3856 or 3249.

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Send editorial comments to: Mailing address: Xplor Magazine, PO Box 180, Jefferson City, MO 65102-0180; Email: Xplor@mdc.mo.gov. Please note: Xplor does not accept unsolicited article queries, manuscripts, photographs, or artwork. Any unsolicited material sent will not be returned.

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#### **ON THE COVER**

Black-Necked Stilt by Noppadol Paothong

# FUN THINGS TO DO AND GREAT PLACES TO DISCOVER NATURE



the sights and sounds of spring, especially wildflowers, butterflies, and birds. Find trails at your nearest MDC nature center or conservation area.

**LISTEN FOR SPRING PEEPERS** when the temperature stays above 40 degrees for a few days.



Watch for V-shaped formations of geese and ducks, and keep an eye out for the aerial stunts of purple martins and swallows.



Listen for wild turkeys calling, and TRY A SPRING TURKEY HUNT.

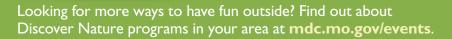
The youth portion (ages 6–15) of Missouri's spring turkey season is April 8 and 9. Ask your favorite turkey-hunting grown-up to help you get started.

LOOK FOR MORELS. These delicious, deeply dimpled mushrooms begin popping up on forest floors in mid-April, and they're just as much fun to hunt as Easter eggs! To be safe, go with an experienced mushroom hunter. Never eat a mushroom unless you're sure it's edible.



around your porch light. These big beauties emerge from their cocoons in spring and fly from early April through August.

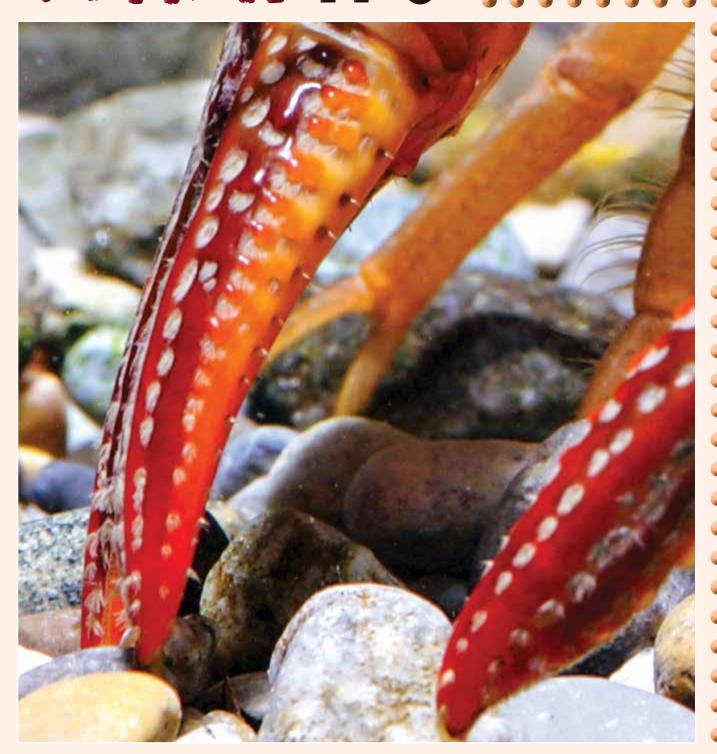
DISCOVER 19411Pd



# WHATIS?

#### DON'T KNOW?

Jump to Page 20 to find out.



.....

- 1 I'm hard on the outside, and I look like a brute.
- 2 I dig deep tunnels way under the ground.
- **1** l eat little critters when the water is high.
- 4 But I share my home when drought comes around.





# WOODLAND Average Outs Averag

n early March, most of Missouri's woods are still gray and bare. But if you take a walk, you might find some signs of spring poking up through the leaf litter. This March and April, take the Woodland Wildflower Challenge. Every week, visit your nearest woods and keep track of the different wildflowers that pop up.

The best way to "collect" wildflowers is with your sketchbook or smartphone. You can even make notecards from your drawings or photos. Send them as handmade Earth Day greetings to your family and friends!

Woodland wildflowers are beautiful, and you may be tempted to pick them. But leave them so the butterflies, birds, bees, and other wild critters can feed on their pollen, nectar, and seeds.



## This flower gets its name from the red sap in its roots and leaves. In earlier times. Native Americans used the sap as an emetic, which means it makes you throw up. So don't eat it! Bloodroot

# Trout Lily

Keep your eyes peeled for a single white flower that looks like a pointed hat nodding from a single stem. The narrow, spotted leaves resemble a trout's shape and coloring.

MARCH

WHEN TO LOOK February-May

WHERE TO LOOK

Wooded slopes and valleys

thousand leaf" because it can form large colonies of thousands of leaves



say what's more awesome about this little flower — the delicate white petals or the

hand-shaped leaf.

single, funny,

It's hard to

WHEN TO LOOK

March-May, depending on the weather

WHERE TO LOOK

Slopes along wooded streams. Check these areas often because the bloodroot flower lasts only a day or two.

Dutchman's Breeches

It's easy to see how this frilly little flower got its name. It looks like a pair of inflated white knee-pants hanging upside down. The finely cut, fern-like leaves are pretty, too.

WHEN TO LOOK March-May

WHERE TO LOOK

Slopes of woods along streams

This flower gets help from ants, which spread its seeds.



oseph OBrien, USDA Forest Service, Bugwood.org

#### ΔPRIL Wake Robin WHEN Also known as trillium, this TO LOOK flower's leafy parts are stacked April-June in groups of three — three purple petals rise from three WHERE TO LOOK little leaflets called sepals, which sit atop three main leaves. Wooded slopes and This flower stinks, but the odor smells bottomlands like lunch to flies and other pollinators. Ruby-throated hummingbird Columbine The five long, hollow peaks on this red-and-yellow flower are called nectaries — little chambers that hold nectar, which attracts pollinators. The spiky columbine needs pollinators like hummingbirds that have WHERE TO LOOK long beaks or tongues. Not surprisingly, it blooms about WHEN Rock ledges and rocky the same time hummingbirds TO LOOK slopes in woods, often migrate back to our state. April-July in shady locations



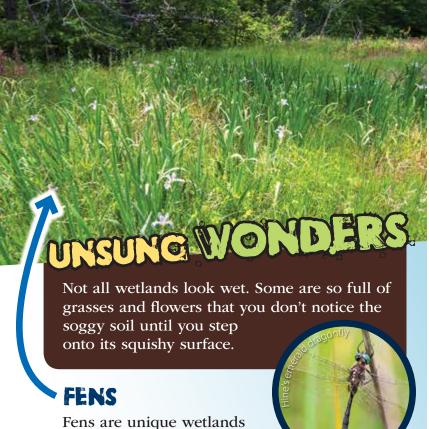






12 | XPLOR Bowfin: Lance Mer





found mostly in the Ozarks.
They form where springs spill
across the land, keeping the soil mucky for most
of the year. Hine's emerald dragonflies love
these conditions. Keep your eyes peeled for the
bug-eyed predators patrolling for insects to eat.

#### WET PRAIRIES

Wet prairies overflow with grasses and wildflowers.
Even under this thick green carpet animals thrive. The massasauga is a small, timid rattlesnake that hibernates in crayfish burrows.

### EXPLORE!

What are you waiting for? Get out and explore one of these amazing wetlands.

#### MARSH

- 1 B.K. Leach Conservation Area
- **2** Fountain Grove Conservation Area
- 3 Eagle Bluffs Conservation Area
- 4 Nodaway Valley Conservation Area
- 5 Chloe Lowry Marsh Natural Area
- **6** Swan Lake National Wildlife Refuge

#### SWAMP

- **7** Mingo National Wildlife Refuge
- Duck Creek Conservation Area
- **9** Otter Slough Conservation Area
- Mallred Lake Natural Area
- **11** Hornersville Swamp Conservation Area
- 12 Big Oak Tree State Park

#### FEN

- **18** Grasshopper Hollow Natural Area
- 18 Big Buffalo Creek Conservation Area
- The Canaan Conservation Area
- **13** Johnson Shut-Ins State Park

#### WET PRAIRIE

- 7 Douglas Branch Conservation Area
- **10** Ripgut Prairie Natural Area
- !! Loess Bluffs National Wildlife Refuge
- **20** Pershing State Park





#### THE STRUCCLE TO SURVIVE ISN'T ALVAYS A FAIR FIGHT

#### EASTERNACIE VS ated by David Besenger CHICAGO CONTROL Illustrated by David Besenger Sleek Fur makes it easy to slip Power through the soil. Shovel paws are good for plowing through the dirt like a machine and pinning prey like a pro wrestler. helps sniff out a worm's whereabouts Sharp Teeth are good for cutting big, slippery worms down to size. Wired for Sound Worms can't hear, but their highly sensitive bodies feel the **Built for Speed** vibrations of tunneling moles, often A slim, slimy, tube-shaped body and in time to split the scene. fast, accordion-like locomotion gives most moles the slip. AND THE WINNER IS.



YOUR GUIDE TO ALL THE UKUSUAL, UNIQUE AND UMBELIEVABLE
THAT GOES ON IN MATURE

Bunches of bunnies: Biologists estimate that a female COTTONTAIL can raise 35 young in a year. If winter ends early, mama cottontails start having babies in mid-March and may produce seven more litters through September.

Don't mess with **BLISTER** BEETLES, buster. When threatened, the insects release a toxic liquid that causes painful sores. The beetles sometimes feed on alfalfa, a crop used to make hay. If a horse eats

hay with too many beetles in it, the horse may die.

PADDLEFISH may grow 7 feet long and weigh 150 pounds. What does a fish that big eat? Itty-bitty animals that drift as plankton. A paddlefish swims with its mouth open, and plankton gets trapped in the fish's

throat in an organ that acts like a

strainer.



sports three toes on each hind foot, but some individuals have four per foot.

If you think all THREE-TOED BOX TIRTLES are three-toed, you'd be toe-tally

Have a heart — or five. Inside an **EARTHWORM** are five organs called aortic (ay-or-tick) arches. The arches work like hearts to pump blood throughout an earthworm's long, skinny body.



PRAIRIE CHICKEN hens like a

mate who knows how to dance. To show off for females, a male droops his wings, fans out his tail, inflates orange air sacs on his neck, and stamps his feet. Now that's one funky chicken!





# PICK A PLANTING SPOT

Bee sunny. You'll attract the widest variety of pollinators if you place your garden in a sunny spot. If a site receives six or more hours of sun, it's sunny. If it gets less than that, it's shady.

Bee near water. Choose a location with easy access to water. Baby plants need water every day until they adapt to their new surroundings.

Bee smart. You don't want other plants to compete with your new flowers, so dig grass and weeds out of the area you plan to plant.

## PICK YOUR PLANTS

Bee native. Choose native perennials for your pollinator paradise. "Perennials" are plants that come back year after year. "Native" means they're from Missouri. Native plants are adapted to Missouri's weather, they need less water, and they provide the best food for pollinators. To find a native plant nursery, visit grownative.org.

Bee diverse. Different pollinators like different flowers, so plant a variety of species.

Bee generous. Plan a mix of flowers so that something is in bloom from April to October.

# GET YOUR HANDS DIRTY

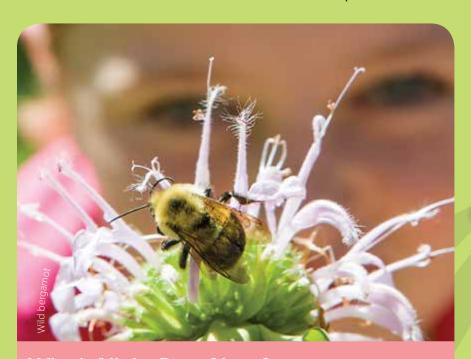
Bee well read. Each seedling should come with planting instructions. Read them. They'll tell you how to plant the seedling and how far away to space it from other seedlings.

**Bee clumpy.** Cluster the same type of flowers together instead of scattering them around. This way pollinators don't have to work hard to find what's blooming.

Bee mulchy. Mulch is a flower's best friend. Spread some around your new plants. It will keep weeds at bay and hold water in the soil.

Bee chemical free. Pesticides and herbicides kill pollinators. Avoid using them.

Bee patient. It may take time for native plants to grow and for pollinators to find your flowers.

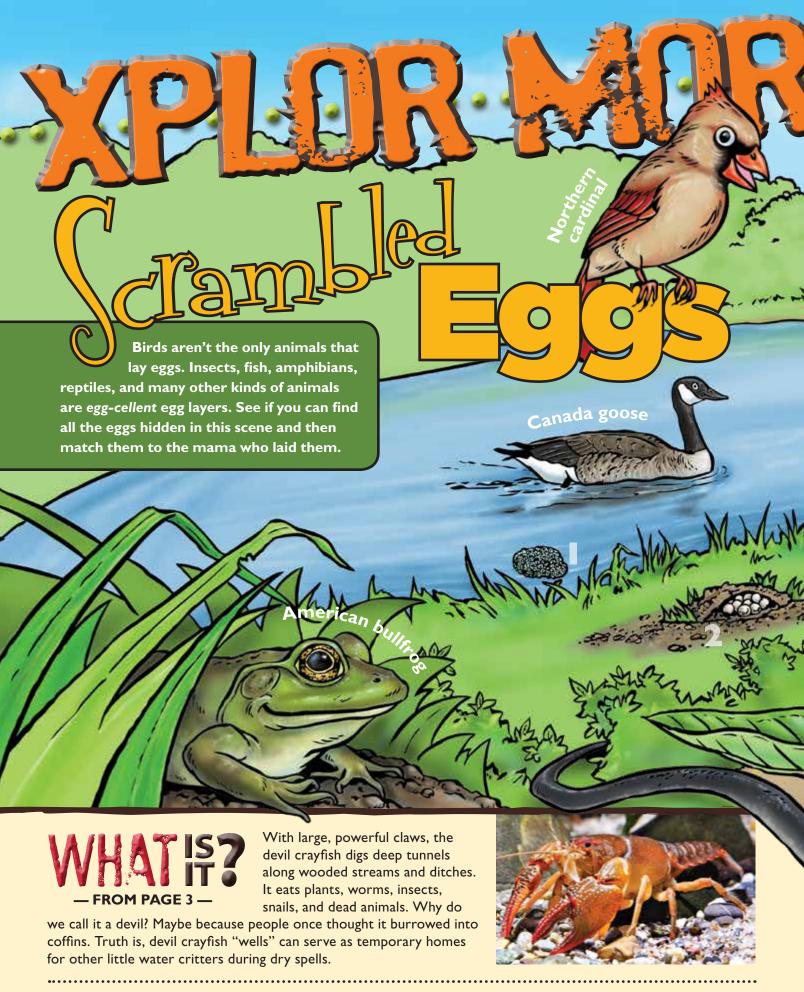


#### What's All the Buzz About?

Bees, butterflies, and other pollinators are nearly as important as sunlight and water to a plant. As pollinators fly from plant to plant, they transfer pollen from one flower to another. Flowers use the pollen to make seeds, which grow into new plants. More than 150 crops in the United States depend on pollinators. Foods such as apples, strawberries, tomatoes, and almonds wouldn't exist without these busy little flower farmers.

Here are a few native plants that are guaranteed to make your backyard buzz. They look great, too!

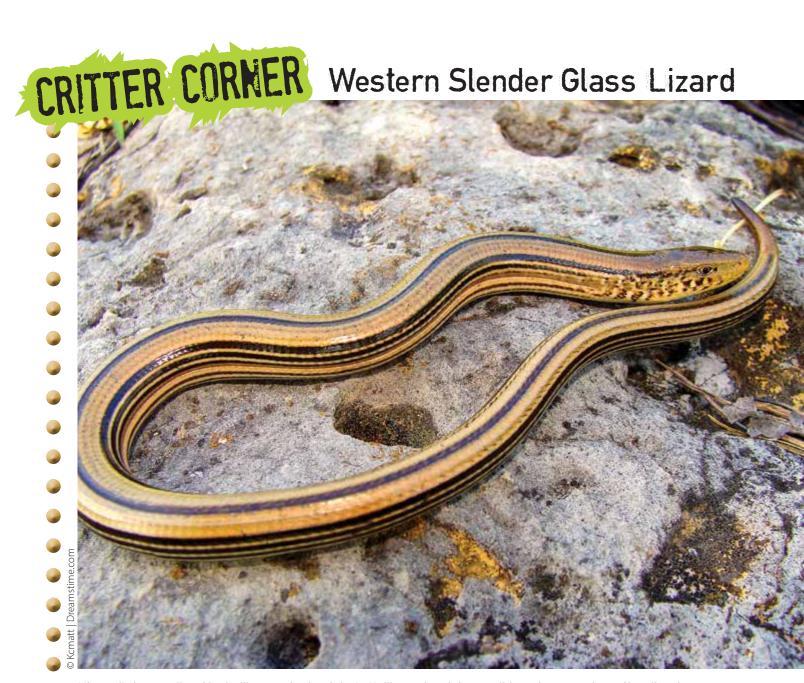
- **Butterfly milkweed**
- Blue wild indigo
- **Aromatic** aster
- Wild bergamot
- **Eastern blazing star**
- Slender mountain mint
- **Cliff goldenrod**
- **Purple coneflower**





#### SUBSCRIBE ONLINE

mdc.mo.gov/xplor Free to Missouri Households



- Missouri's longest lizard looks like a snake, but it isn't. Unlike snakes, it has eyelids and ear openings. Glass lizards can grow up to 26 inches long. Most of this length is tail, which can break off in a predator's (or kid's) grip. The glass lizard can grow up to its tail, but it will be about a grow and deploy a look for it is predator.
- regenerate its tail, but it will be shorter and darker. Look for it in pastures, prairies, and open woods on dry, rocky hillsides.

  Learn more at mdc.mo.gov/field-guide.