







Diary of a Black Bear Follow a year in the life of a Missouri bear.

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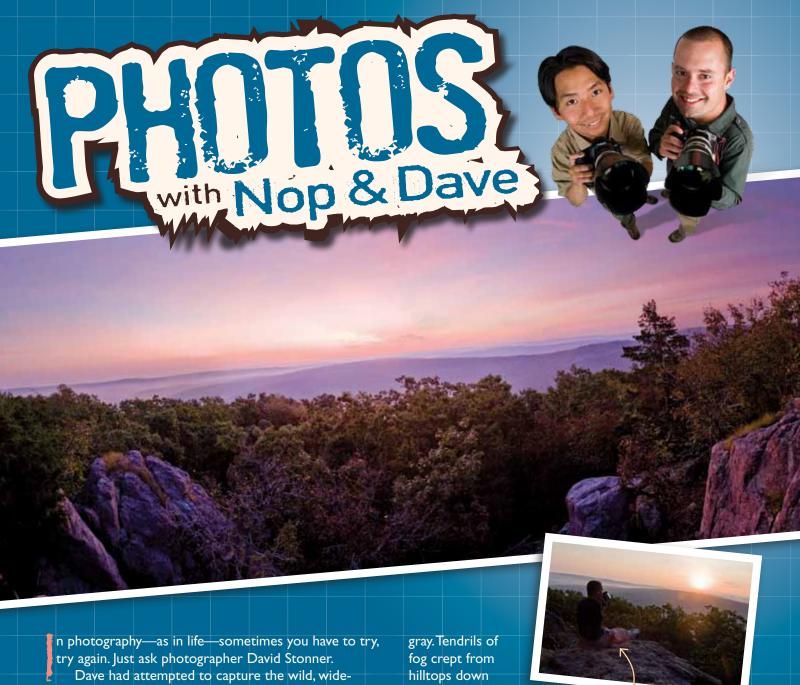


photo by Noppadol Paothong



ON THE WEB

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open view from the top of Bell Mountain before. He'd been there in winter, but bone-chilling weather had made it tough to operate his camera.

Through his lens, the snowless Ozark hills looked bare and ugly.

The following spring, Dave tried again. This time, he decided to photograph a sunrise from the summit. He lugged camping gear up the two-mile trail, then pitched his

tent. As the sun sank, he sipped hot cocoa, listened to coyotes howl and watched the stars come out. By the time the moon rose, Dave was snug in his sleeping bag.

His beeping alarm woke Dave well before sunrise. He set up his camera by moonlight and watched the eastern sky change from inky blue to smoky

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into valleys. When the sun peeked over

**Bell Mountain Sunrise** photo by Dave Stonner

the distant hills, Dave watched the clouds overhead explode in warm, rosy colors.

One picture wouldn't do justice to this sweeping, sun-kissed vista, so Dave snapped seven. Back at his office, he stitched them together on his computer into a

single, stunning image.

Dave's quest was to capture the spectacular view from atop Bell Mountain. His persistence paid off, don't you think?

To see more of Dave's photos, visit www.xplormo. org/node/9025.



ith summer winding down, and autumn gearing up, there's plenty to discover in August and September. Here are a few ideas to get you started.

## Refuel a helicopter.

In mid-August, hummingbirds head south for winter. To fuel their trip, these tiny helicopters must eat half their body weight in insects and nectar each day. You'd have to drink 160 cans of soda to do the same what a sugar rush! To help hungry hummers refuel, stock a feeder with sugar water. Sitting quietly underneath it is like being in the front row at an air show. One of the little birds might even perch on your finger if you hold really still! To make a hummingbird feeder, visit www.xplormo.org/node/9026. Ruby-throated hummingbird

# Hook a hopper

fun as catching fish? Catching grasshoppers for bait. A butterfly net will sweep up a ton, but hunting them by hand is a lot more fun. Stash what you catch in a coffee can. When you're ready to fish, poke a hook directly behind the hopper's head and let it come out the middle of its back. Don't hook it too deeply—a dead hopper will catch fish, but a live one thrashing about will stir up quite a feeding frenzy.

# Go on a backyard lion HUNT.

You won't find big cats prowling your backyard, but you might find a mini predator that's just as ferocious.

Ant lions are tiny insect larvae that dig small, cone-shaped pits in the sand. When another insect stumbles into the pit, sliding sand keeps it from climbing out. The ant lion waits at the bottom, ready to snare the unlucky bug in its poison-tipped pincers. There are probably ant lions

lurking in your backyard. Search for their pits in fine, dry soil beside houses, under decks or in flowerbeds. For tips on observing ant lions up close, visit www.xplormo. org/node/9028.



# Pucker

What looks like a squishy orange tomato, tastes like a cross between a pumpkin and a pear, and forecasts the weather as well as

a groundhog? It's a persimmon. Persimmons are good to eat-if they're ripe. If they're not, their bitter taste will make you pucker. Some folks claim you can tell how cold the winter will be by splitting open a persimmon seed. If the inside looks like a knife, expect frigid winds that will cut like a blade. A spoon predicts plenty of snow to shovel. And, if you find a fork, plan on a mild winter.

MAKE A WISH calendar for August 12. Late that night, the Perseid meteor shower will flood the heavens with up to 80 shooting stars an hour. To enjoy the show, find a place away from city lights, spread a blanket and lie on your back facing the northeastern sky. Shooting stars aren't really stars but bits of cosmic crud that crumble off comets. When the debris falls through Earth's atmosphere, it flares up, giving dreamers something to wish upon.

## Race woolly bears.

In September, black-and-brown woolly bear caterpillars show up in full force. Grab your friends, round up a few of the frizzy-haired plant-munchers, and scratch a circle in the dirt about the size of a hula hoop. Place your captive caterpillars in the circle's center, and see which woolly bear wiggles out first.



What's small and gray, flies at 40 miles per hour, and performs mid-air dips and dives that would make a stunt pilot queasy? It's a mourning dove, and there's nothing more challenging than trying to drop a few with a shotgun. Dove

season opens September 1, so grab an adult, put on some camouflage and pack plenty of shells. Doves flock to fields with lots of seeds and bare ground—mowed sunflower fields are perfect. For tips, rules and places to hunt, visit www.xplormo.org/node/19031.

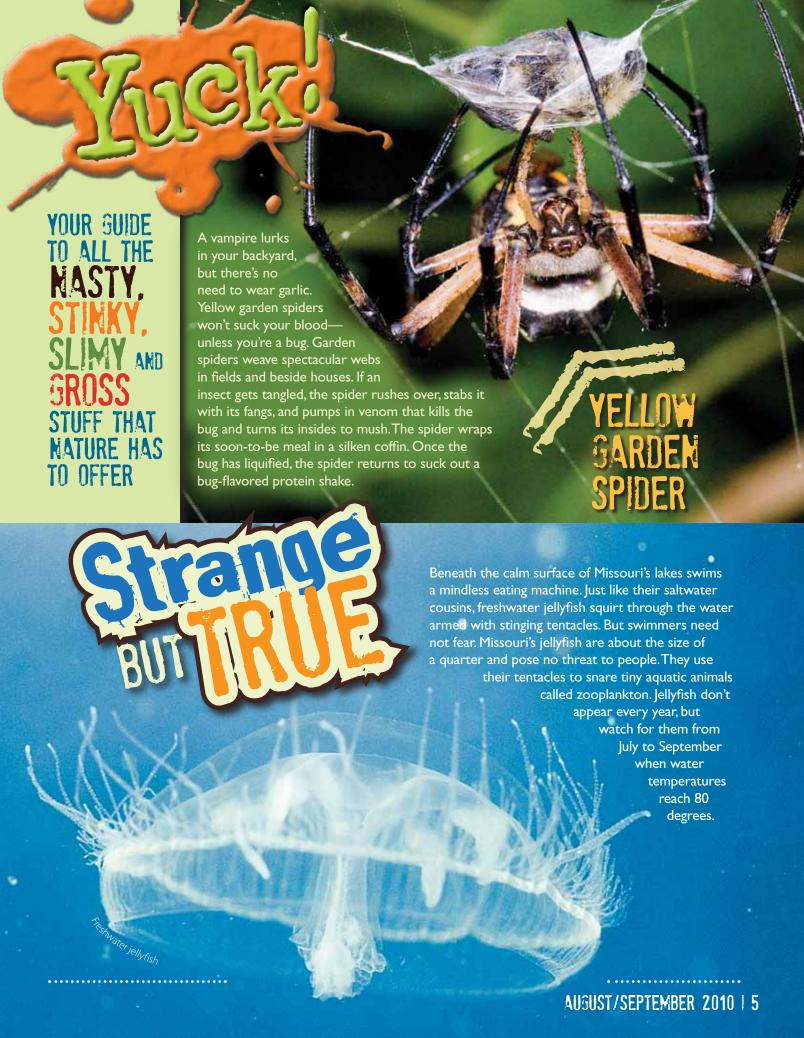
Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at www.xplormo.org/xplor/stuff-do/all-events.

## Go on a cricket CRAWI

Head outside on a sultry August night, and you'll be serenaded by the trilling of crickets and the buzzing of katydids. These relatives of grasshoppers sing with their wings, scraping the smooth edge of one wing against the rough surface of another. How many different kinds can you hear? If you can't tell a cricket from a katydid, go to www.xplormo.org/ node/9029.

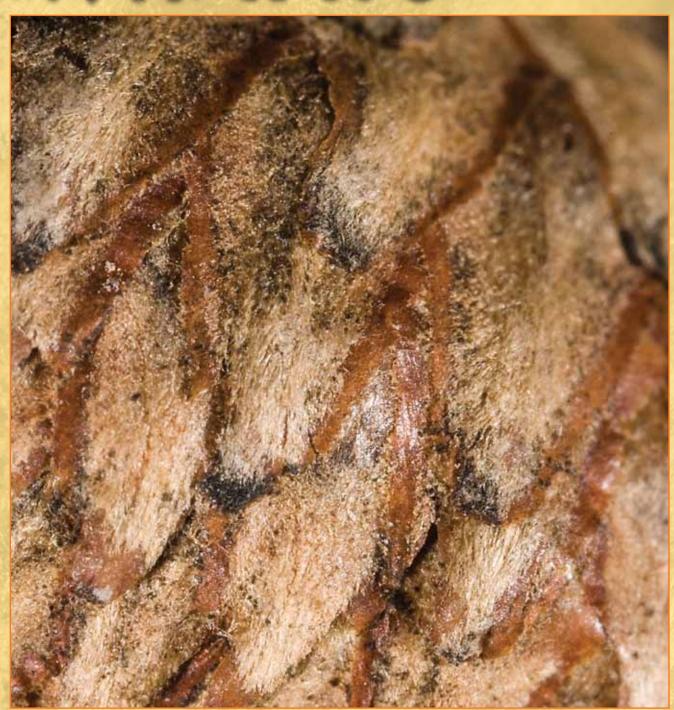






#### **DON'T KNOW?**

Jump to Page 16 to find out.



I'm mighty small now, but I'll be almighty someday. I wear a cap, but not on my head. Some think I'm bitter. Others think I'm nutty. Animals may gobble me up or squirrel me away.

# BY TRISTON AND TRINITY GILBERT, AGES 12 AND 8

his place needs help," Triston said on the first visit to his family's new farm. Cattle had could move through it. Erosion had turned the livestock trails into deep ditches, and the pond leaked like the drain family sprang to work to turn their beat-up farm into a paradise for wildlife.

They burned the fields and sprayed herbicide over the fescue. Triston used a hand seeder to sow wildlifefriendly grasses and wildflowers in the bare soil. He stuck willow cuttings in the ditches, hoping they would take root to stop the erosion. Using
a tree planter
pulled behind a
tractor, Trinity
helped plant
thousands of
oak, hickory
and pecan
seedlings.

The kids picked up trash where the farm's former owner had used a ditch for a dump. By summer's end, their efforts were starting to pay off. Rabbits, deer and other wildlife began to return.

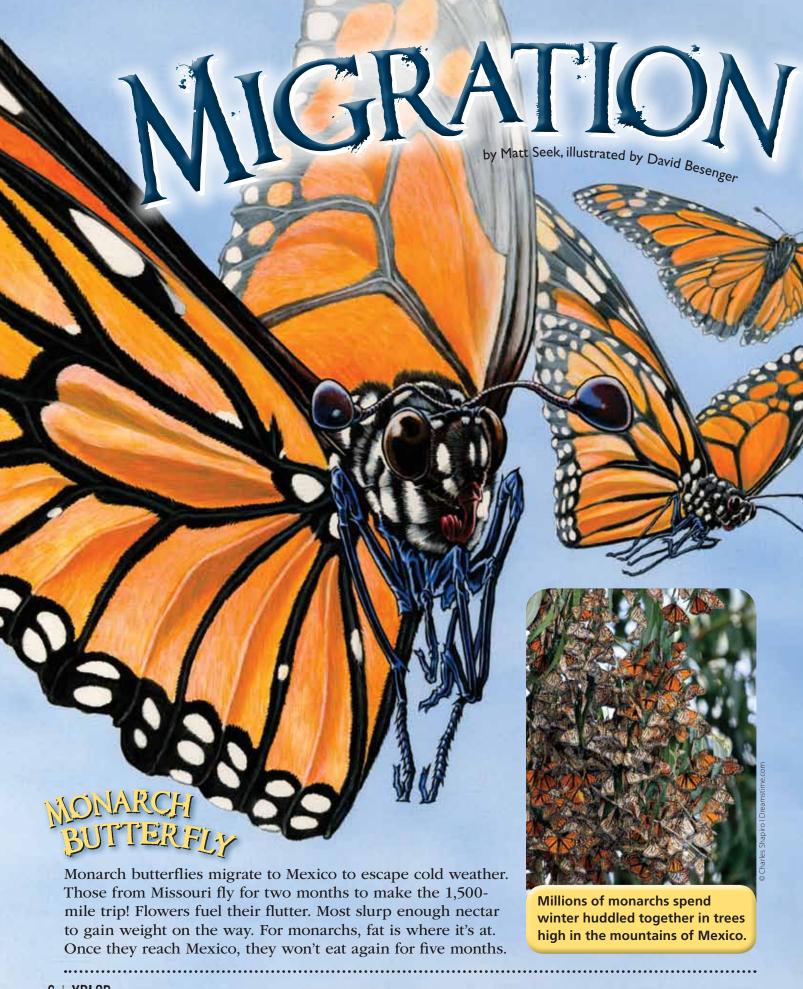
Want to learn how your family can create

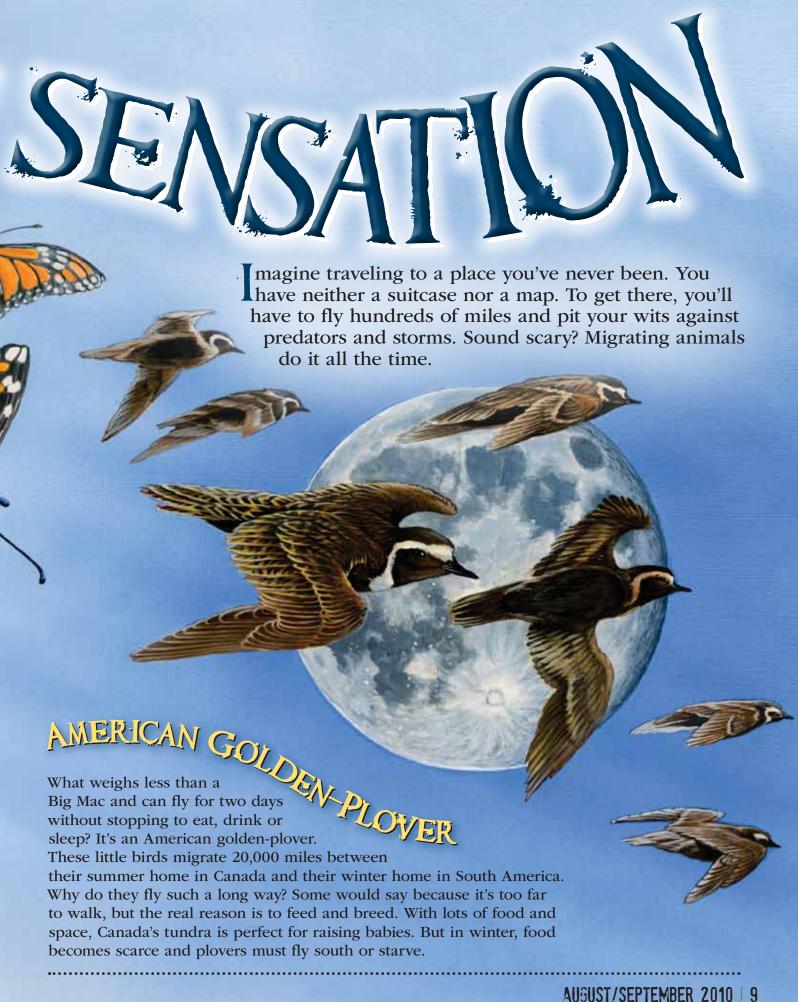
The kids were rewarded for their work.

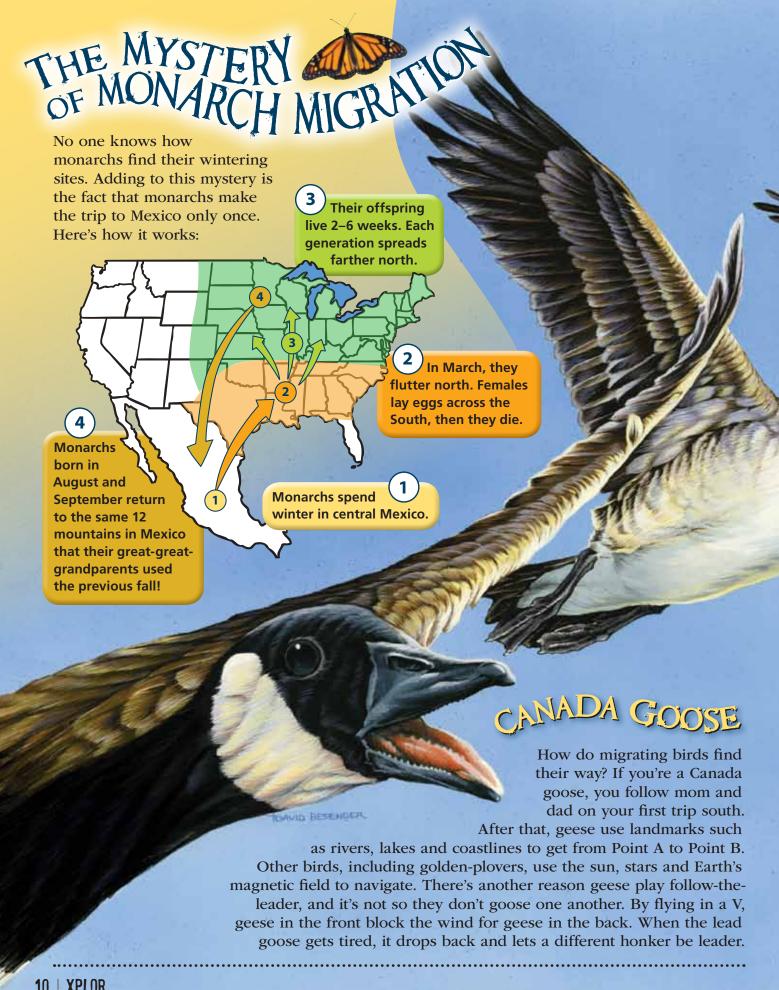
Trinity gigged a frog at the pond, and Triston bagged a dove in a field he had planted.

for wildlife? Visit www.mdc.mo.gov/landwater-care

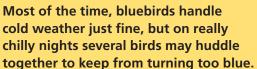
habitat







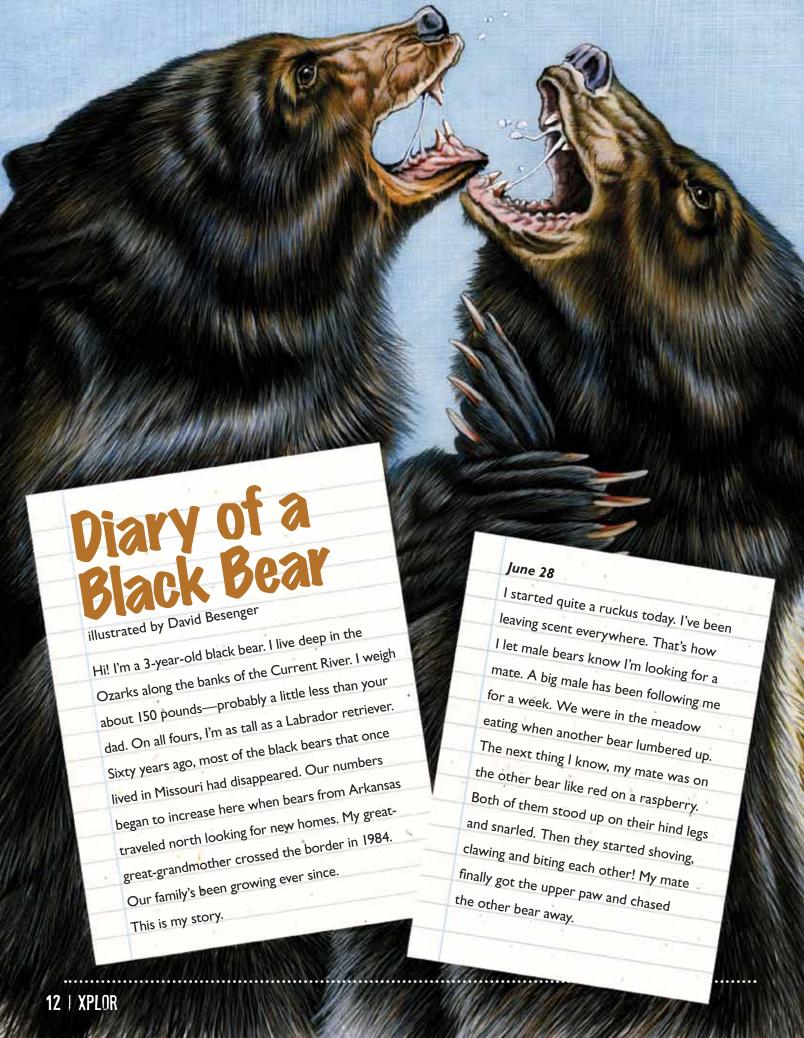


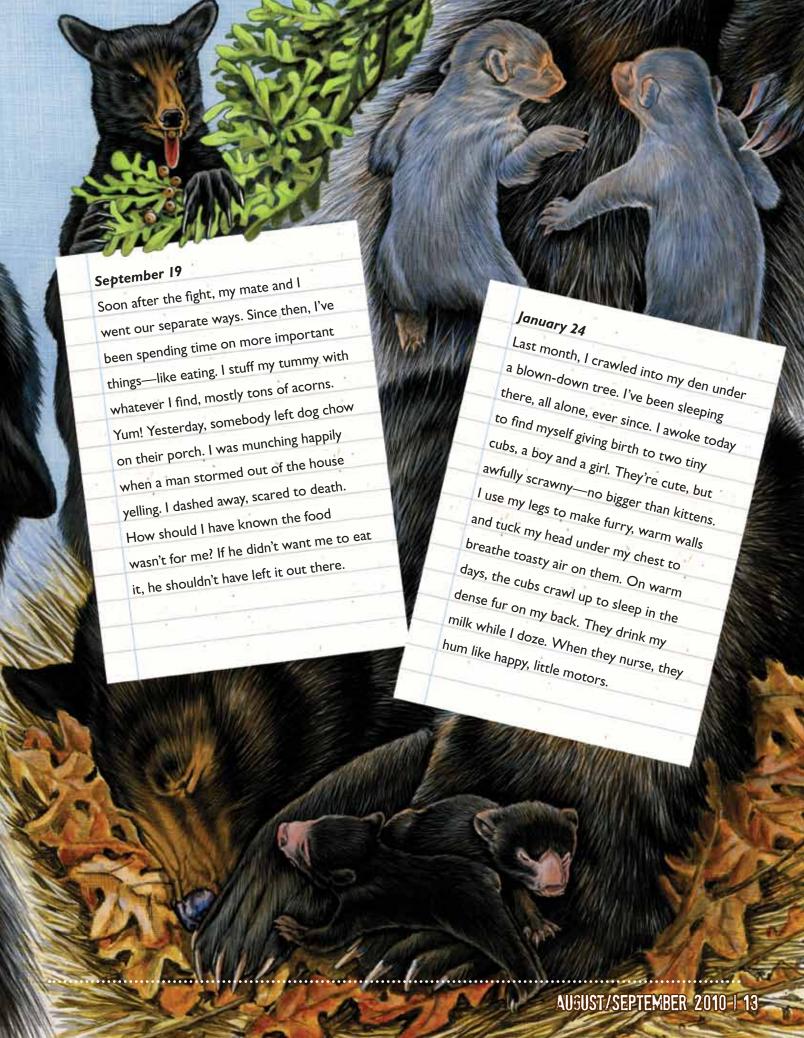




## STERN BLUEBIRD

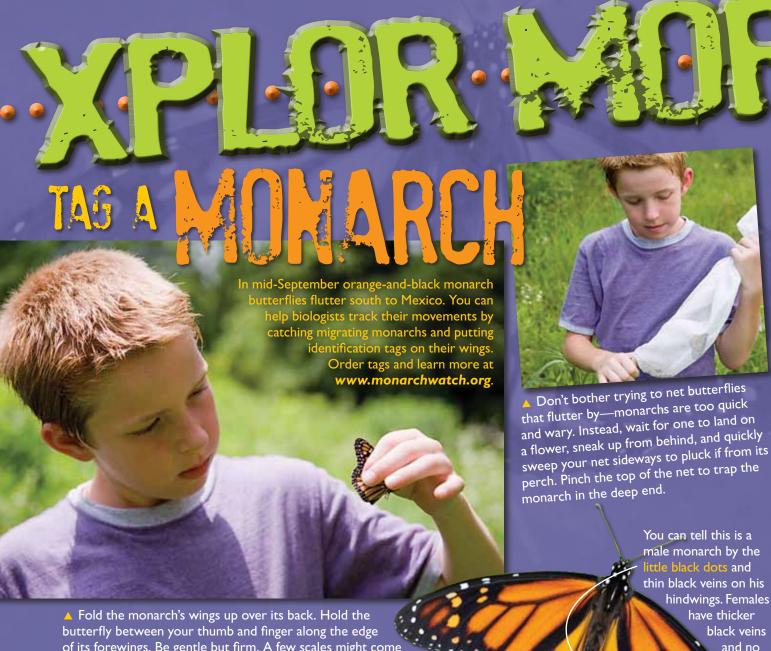
Birds don't fly south to get a good tan. They go because foods they like to eat become scarce when it gets cold. Many migrating birds get eaten by predators, are blown off course by storms or become so tired they can't go on. To avoid these dangers, some birds don't migrate. Most of Missouri's eastern bluebirds don't fly south, they just eat something different when winter strikes. During warmer months, bluebirds feast on insects. When insects disappear, they switch to berries and other fruits. Bluebirds might have to move a few miles, but they don't have to cross the ocean to find a berry bush.





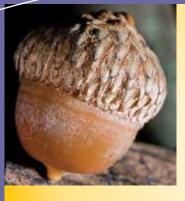






of its forewings. Be gentle but firm. A few scales might come off, but don't worry. Monarchs are tough!

▼ Hold the tag by its edge and stick it over the mitten-shaped cell on the monarch's hindwing. Record the tag number and the monarch's sex, then open your fingers and watch if flutter away.



**ANSWER TO** 

dots.

FROM PAGE 6

All mighty oak trees begin life as tiny acorns. Acorns are attached to trees by saucer-shaped caps. Although some acorns taste nutty, most are bitter. Animals don't seem to mind. When

acorns drop in fall, most are quickly gobbled up by turkeys, bears and other wildlife. Squirrels and blue jays bury acorns for winter. Some of these are forgotten and sprout into baby oaks in spring.

# Vhose Animals leave clues to let us know where they've been. Search the woods carefully

and you might find footprints in the dirt, chew marks on a nut, fur snagged on a thorn, and other, well, stuff.

Every animal eats. Every animal gets rid of wastes. Biologists call these droppings scat. If you open your eyes—and plug your nose—you can learn a lot from scat. The scat's size, shape and location are clues to which animal left it behind. Animals that eat meat have tube-shaped scat. Animals that eat plants pass smaller, pellet-shaped scat. Aquatic animals leave scat near water. Climbing animals leave scat near trees. What's in the scat tells you what the animal has eaten—another important clue.

Think you have the scoop on poop? Use the clues to match each species to its feces. Turn the page upside down to see if you passed.



Raccoon—I never pass a chance to feast on berries, but I do pass their seeds.

> Coyote—No dog chow for me. I eat what I catch: rabbits, mice and other furry creatures.

**Deer**—Beware of raisins in the woods. They might be leftover plants I left behind.

Rabbit—I nibble plants all day. All the fiber makes my scat look like chocolate puffs.

> Ottersquirt scaly scat. It must be from all the fish and crayfish I consume.







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Why so glum, chum? These little fish are found only in the Ozarks where they hug the bottom of cold, swift streams. To avoid becoming chum for predators, sculpins have a trick up their fins—they change color to blend in with their surroundings.