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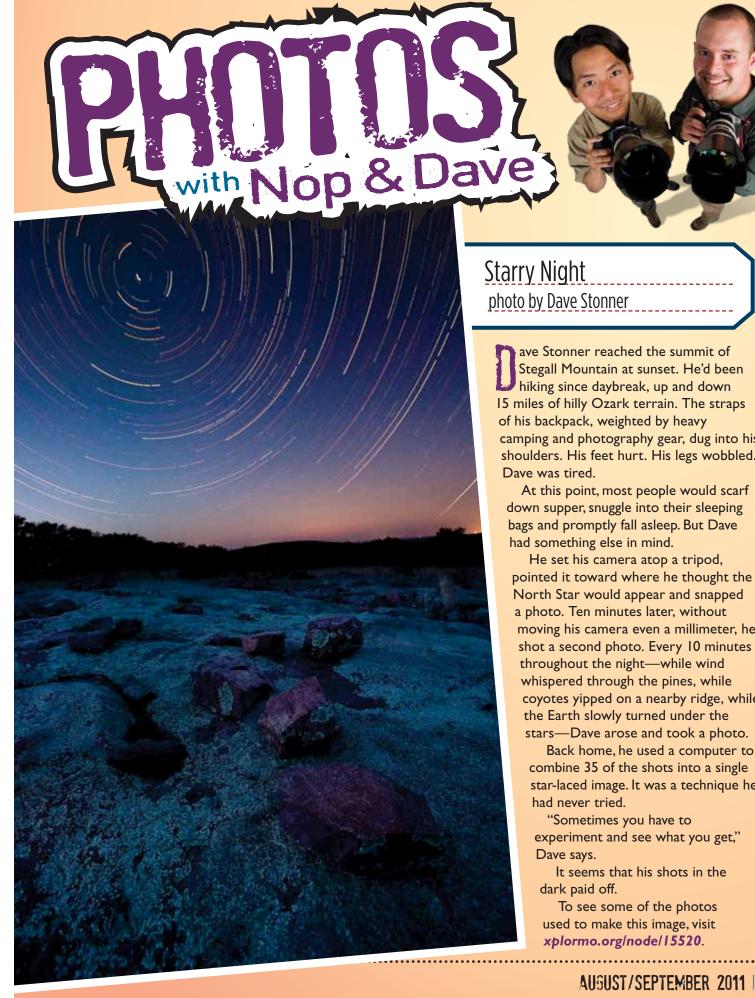
Xplor (ISSN 2151-8351) is published bimonthly. It is a publication of the Missouri Department of Conservation, 2901 West Truman Boulevard, Jefferson City, MO (Mailing address: PO Box 180, Jefferson City, MO 65102.) Subscription free to Missouri residents (one per household); out of state \$5 per year; 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, Mo., and at additional entry offices. Postmaster: Send correspondence to Xplor Circulation, PO Box 180, Jefferson City, MO 65102-0180. Phone: 573-751-4115, ext. 3856 or 3249.

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ave Stonner reached the summit of Stegall Mountain at sunset. He'd been hiking since daybreak, up and down 15 miles of hilly Ozark terrain. The straps of his backpack, weighted by heavy camping and photography gear, dug into his shoulders. His feet hurt. His legs wobbled. Dave was tired.

At this point, most people would scarf down supper, snuggle into their sleeping bags and promptly fall asleep. But Dave had something else in mind.

He set his camera atop a tripod, pointed it toward where he thought the North Star would appear and snapped a photo. Ten minutes later, without moving his camera even a millimeter, he shot a second photo. Every 10 minutes throughout the night—while wind whispered through the pines, while coyotes yipped on a nearby ridge, while the Earth slowly turned under the stars—Dave arose and took a photo.

Back home, he used a computer to combine 35 of the shots into a single star-laced image. It was a technique he had never tried.

"Sometimes you have to experiment and see what you get," Dave says.

It seems that his shots in the dark paid off.

To see some of the photos used to make this image, visit xplormo.org/node/15520.

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

Have you ever found yellow slime on a dead log or in the mulch around your house? It may look like dog vomit, but it's likely a strange, harmless creature called a slime mold. Want to grow some at home? Cut off a chunk and put it in a container lined with a moist paper towel. Drop in a flake of old-fashioned oatmeal (not instant), snap on a lid, and put the container in a dark place. Keep feeding the slime mold oats, and it will grow to blob-like size.

SEEK A CREEK

If summer's heat has you beat, seek a creek. It's fun to just splash in the water, but there's tons more to do. Flip rocks to see what lives underneath. Have a stone-skipping contest or stick-raft race. Bring a mask, snorkel and dip net to catch minnows and crayfish. Or, for a real thrill, ask a parent to tie up a rope so you can swing out and plunge into a cool, deep pool.





For a fun way to learn about critters living in your backyard, make a field guide. Snap photos or draw pictures of every animal or plant you find, then use keen observation skills to write a description for each. What does

the pattern on that butterfly's wings look like? Where do robins nest? How does a treefrog sound? Don't forget to include the animal's name, when and where you found it, and any neat facts you learn through research.

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ROPE a DINOSAUR.

Gar—skinny fish with beak-like jaws have survived, generation by generation, since before dinosaurs ruled Earth. It's easy to catch these hard-fighting, prehistoric fish, but don't bother with a hook. A gar's bony jaw is too tough. What you need is a piece of frayed rope. The rope gets tangled in the gar's teeth, and the fish can't shake free. All you have to do is reel in the monster. To make a gar lure, swim over to xplormo.org/node/15519.

Make SUMAC JUICE.

When life gives you lemons, make lemonade. If you're lemonless, find some sumac. Sumac is a shrub that forms thickets along roadsides and fencerows. In September it produces cone-shaped clusters of rusty red berries. Collect a dozen sumac clusters and shake out all the bugs. Submerge the clusters in a large bowl filled with water, and rub them until the powder that coats the berries turns the water pink. Strain the water through an old (but clean) tea towel into a pitcher. Add sugar and ice, then toast the end of summer with a refreshing glass of sumacade.

Train a HUMMINGBIRD.

Hummingbirds are so fearless, you can train them to perch on your finger. Here's how: Keep a hummingbird feeder stocked with nectar. (Head to xplormo.org/ node/9026 for a nectar recipe.) Once hummers are frequenting the feeder, begin sitting quietly beside it. When the birds are no longer bothered by your presence, hold a finger close to the feeder as if it were a perch. With patience and a steady hand—one of the energetic little gems will buzz in and sit on your finger to sip nectar.

Everyone needs a secret hideout. You can build one in the woods (or your backyard) without using a single nail. Just gather dead branches and lay them over a fallen log to build a lean-to. Or, weave limbs through upright trees to form walls. Your new hideout will offer peace from pesky little brothers, and animals will soon get

used to the structure, allowing you to sit quietly inside and watch them up close.

TEAL hunting

If icy weather, frozen toes and snotsicles hanging from your nose have turned you off to winter duck hunting, give September's teal season a try. Teal are the buzz bombs of the waterfowl world. They fly fast and dart unpredictably over the marsh, and they're a lot of fun to hunt. For season dates, bag limits and other rules, visit mdc.mo.gov/node/3641.

Ruby-throated hummingbird

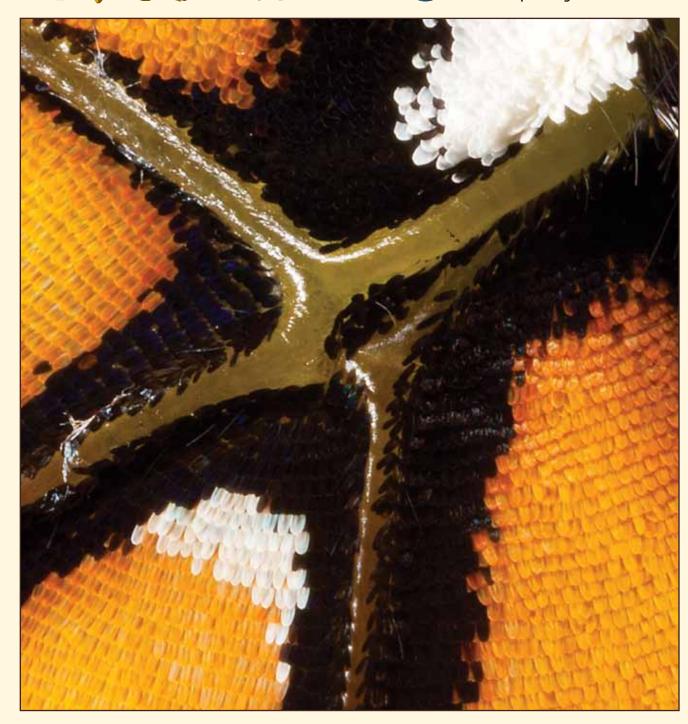
Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at xplormo.org/node/2616.



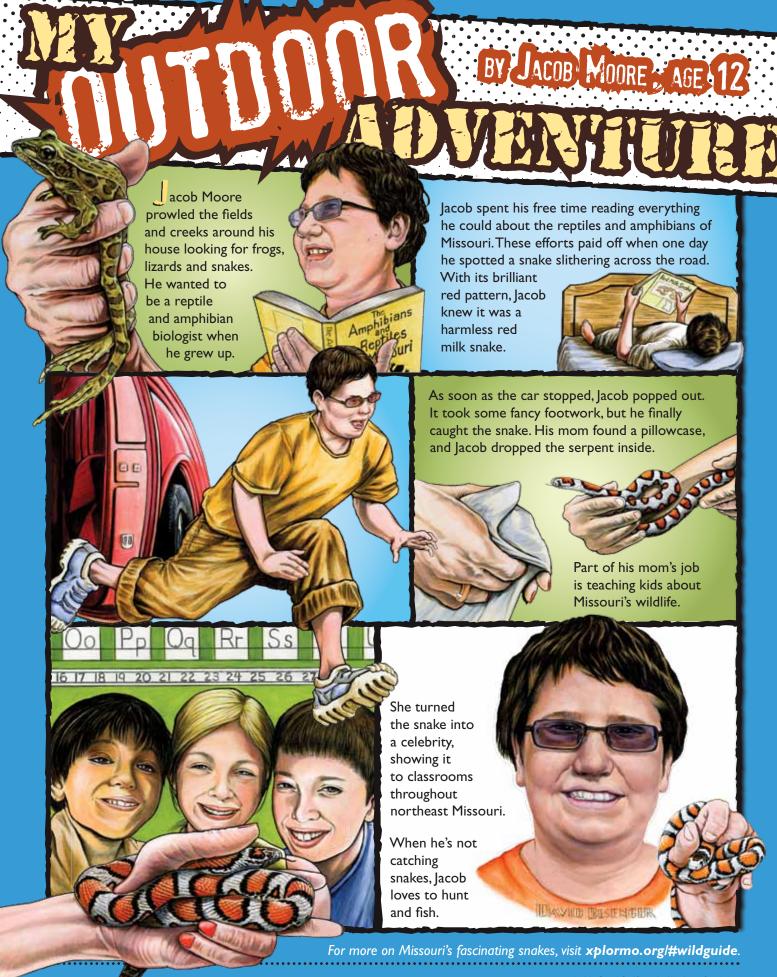


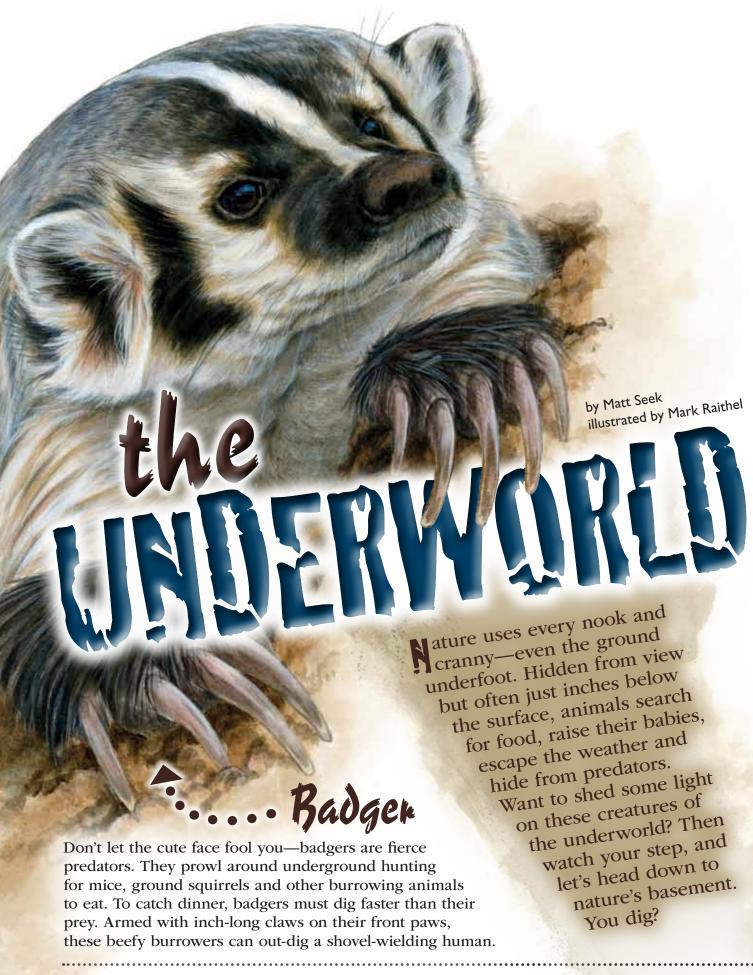
DON'T KNOW?

Jump to Page 16 to find out.

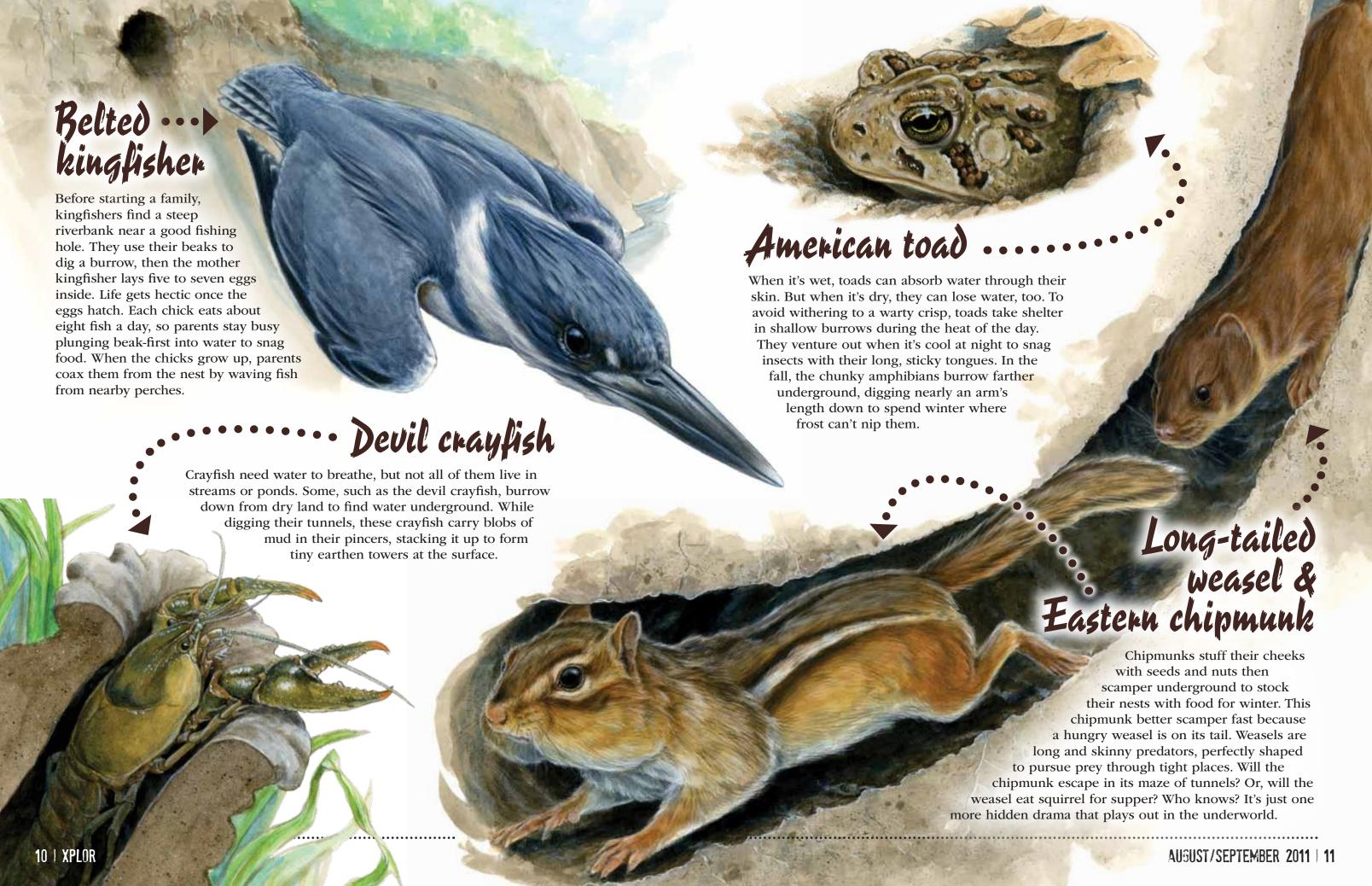


My bright orange scales are tough as nails. Flower power fuels my flutter. I'm really lucky to taste so yucky. When it comes to migration, I'm the king.











AMERICA'S MOST POPULAR GAME BIRD

Hunters bag more mourning doves than any other migratory bird, and for good reason. Doves are incredibly common—about 350 million live in the United States. Dove hunting doesn't require a lot of special gear. Dove season, which opens September 1 in Missouri, usually offers beautiful fall weather. And, most importantly, dove hunting is just plain fun.

SLEEK GRAY STREAKS

Mourning doves can zip along at 40 miles per hour, streaking into and out of gun range in seconds. But speed alone isn't what makes dove hunting such a thrill (and so much of a challenge). Doves twist, swoop and corkscrew through the air in ways that would make a stunt pilot reach for a barf bag. Trying to bag a limit of 15 doves requires keen eyes—and plenty of shotgun shells!

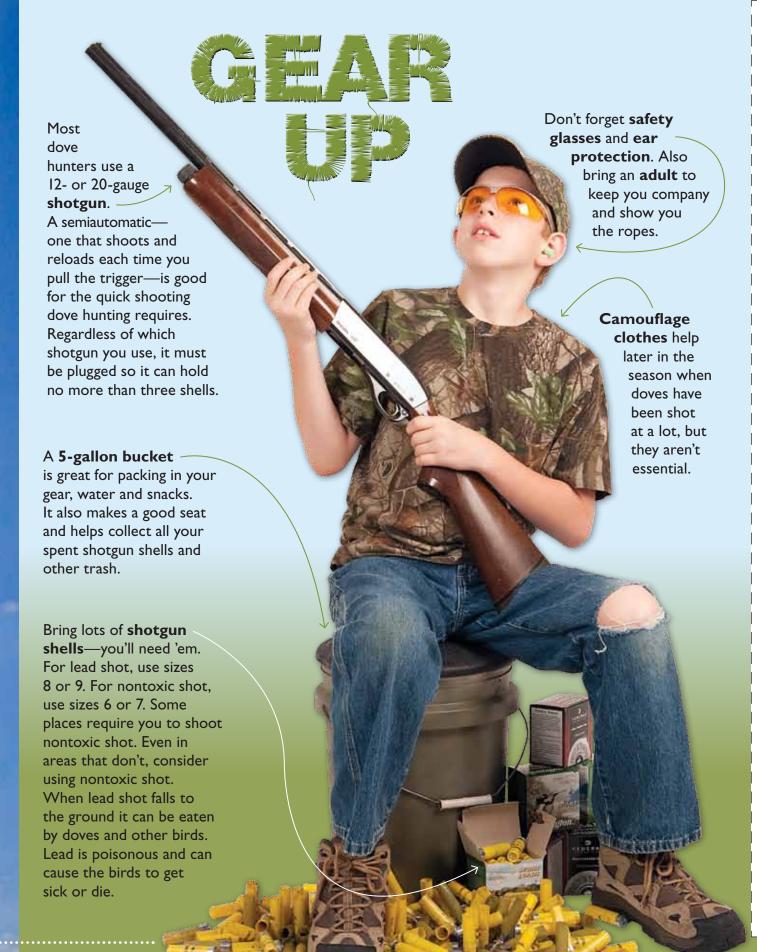
THINK LIKE A DOVE

Finding a place to dove hunt is easy. You just have to think like a dove. Doves need seeds on the ground, water to drink and perches to rest upon. Any place with these three things will draw doves. Harvested crop fields, sunflower fields and weedy pastures are dove magnets. Many conservation areas are managed for doves, also. Check mdc.mo.gov/18183 to find a conservation area to hunt.

DOVE HUNTING 101

Doves are most active in the morning and late afternoon. If you have the place all to yourself, you can walk around and try to flush doves off the ground. Most hunters, however, find a spot at the edge of a field where they sit and wait for doves to fly by. Should a flock come your way, shoulder your gun and wait for the birds to get within 30–40 yards. Never shoot at low-flying doves! Always aim at least 45 degrees above the horizon to avoid hitting other hunters. Pick out a single dove and track just a bit ahead of it with your shotgun. Squeeze the trigger and continue to swing the shotgun even after the shot. If you miss, shoot again. If you hit a bird, watch it all the way to the ground.

Pay attention to safety and follow the law, or your hunt might go south faster than a migrating dove. Learn to safely handle a gun, and always hunt with an adult. Before heading afield, read the rules in the Migratory Bird Hunting Digest. Pick up a free copy where permits are sold, or find it at mdc.mo.gov/node/3641.



KNOW YOUR

In addition to mourning doves, whitewinged and Eurasian collared-doves are legal to shoot during dove season. Be careful, though. Other birds—such as nighthawks, kestrels, shorebirds and songbirds—might buzz past. If you're not sure, don't shoot!

MOURNING DOVE

- most common dove
- grayish-brown
- small head, long pointed tail
- stong, fast, shifting

WHITE-WINGED DOVE

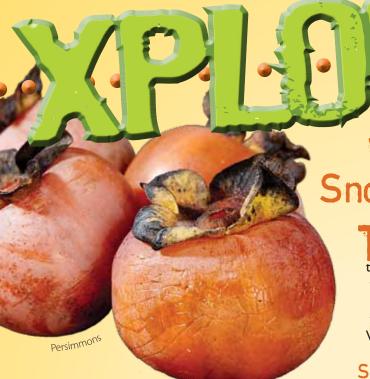
- color similar to mourning dove
- · same size as mourning dove, but chunkier
- · flies straighter, wingbeats slower than mourning dove



EURASIAN COLLARED DOVE

- · more gray than mourning dove
- much larger than mourning dove





Will Winter be Cold and Snowy? Ask a Persimmon.

oward the end of September, in forests and fencerows throughout Missouri, plum-sized orange persimmons begin to ripen and drop from the branches of their knobby-barked trees. Animals love to eat persimmons. You probably will, too—if the persimmons are ripe. If they aren't, one bite will make your mouth pucker like you drank a whole jar of pickle juice. When a persimmon feels squishy, it's ready to eat.

Squishy Orange Weather Forecasters

Some people claim you can forecast winter's weather by splitting a persimmon seed into two thin halves. The white embryo inside—that's the part that would grow into a new tree—will be shaped like a spoon, knife or fork.

Slice a Seed, Not Your Finger

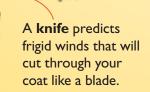
Persimmon seeds fresh out of the fruit are as slippery as buttered bullfrogs. Trying to cut one with a knife is a good way to slice your finger. To keep your digits intact, let your persimmon seeds dry in the sun for a few days. Then, use a pair of pliers to squeeze each seed. They should split right open.

Write your persimmon prediction here and check back to see if your seeds were right.

Use these pictures to decipher your persimmon's forecast.

A **spoon**—like a mini snow shovel—indicates there will be lots of snow.

A **fork** forecasts a pleasant, mild winter. Sorry, no snow days.



ANSWER TO

ISP FROM PAGE 6

In September, monarch butterflies flutter south to spend winter in Mexico. Nectar from flowers provides energy for their incredible 3,000-mile migration—one of the longest of any insect. As caterpillars, monarchs eat poisonous plants called milkweeds. This makes the adult butterflies taste yucky. A monarch's tough orange-and-black scales

yucky. A monarch's tough orange-and-black scales tell birds and other predators, "If you eat me, you'll be sorry!"



IT'S A SWALLOW BON VOYAGE PARTY! HOW MANY OF EACH KIND CAN YOU FIND IN THE FLOCK ABOVE? (HINT: THERE ARE 316 TOTAL.



Barn Swallow



Bank Swallow



Cliff Swallow



Purple Martin



Rough-winged Swallow



Hungry swallows swallow insects—and not much else. So, when bugs bug out in the fall, swallows split for Central and South

Tree Swallow

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FREE TO MISSOURI HOUSEHOLDS



Hey, chubby cheeks! In early fall, chipmunks have just one thought in their furry little heads: storing seeds and nuts for winter. They stuff their cheeks like grocery sacks and scurry to their nests, cramming in enough food to fill nine 2-liter soda bottles.