



FEATURES

- 6 Alien Invaders
 Your mission: Stop these plants and animals before they take over Missouri.
- 10 Small Game Hunting Check out *Xplor*'s top tips for having a blast.

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A bald eagle swoops in for fresh sushi from the Mississippi River near Louisiana, Missouri.

by Noppadol Paothong





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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, Missouri, 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.

Copyright © 2015 by the Conservation Commission of the State of Missouri. Vol. 6, No. 6. November/December 2015 issue printed by RR Donnelley in October 2015 in Liberty, Missouri. Printed in the USA.

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

Northern Bobwhite Quail by Jim Rathert

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DON'TMISS THE CHANCE TO DISCOVER NATURE AT THESE FUN EVENTS





Cape Girardeau Conservation Nature Center. November 12, 5-8 p.m. For details, call 573-290-5218.

Sharpen your rifle skills at **BEGINNING YOUTH RIFLE** SHOOTING. Jay Henges Shooting Range in High Ridge. November 28, 8-9:30 a.m. Ages 9-15. Youth must be accompanied by an adult. Register at 636-938-9548.

There's plenty to discover outdoors in late fall and early winter. Watch for these natural events around these dates.

NOVEMBER 13

Scout for frost flowers after the first hard frost.

NOVEMBER 17

Keep your eyes on the sky for the Leonid meteor shower.

NOVEMBER 20

Fill your pockets as pecans drop from trees.

DE(EMBER 3

Barred owls are courting. Listen for: "Who cooks for you? Who cooks for you all?"

DE(EMBER&

Snow goose populations peak at wetlands.

DE(EMBER 12

Bald eagles flock to southern Missouri.

DE(EMBER 24

Look for woodpeckers at suet feeders: downy, hairy, pileated, and red-bellied.



Lace up your boots for a SHORT-EARED **OWL HIKE. Shawnee** Trail Conservation Area near Mindenmines. December 11, 4:30-6 p.m. Ages 8 and older. Register at 417-629-3423.



Decorate your tree with MATURE'S ORNAMENTS.

Twin Pines

Conservation Education Center in Winona. November 28,

10 a.m.-2 p.m. Register at 573-325-1381.

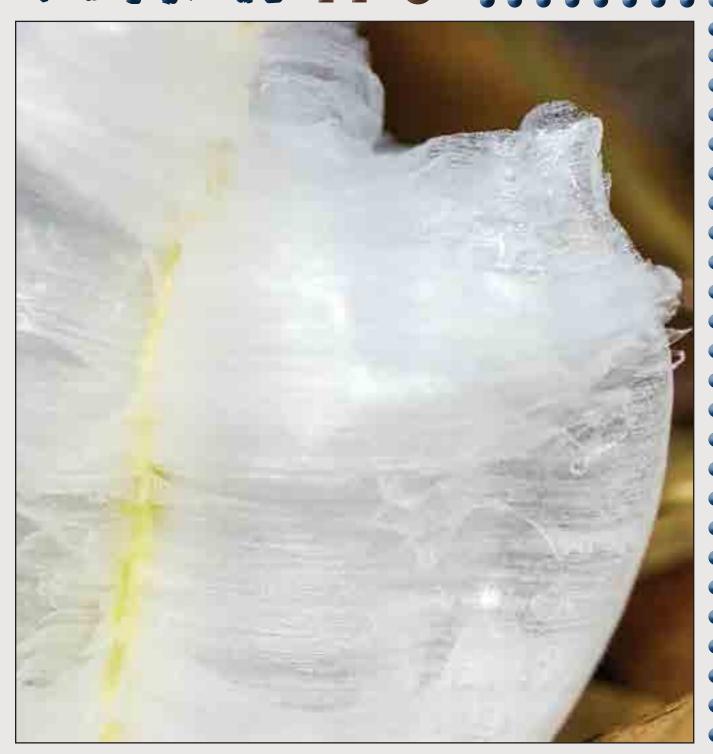
See the outdoors on the big screen at NATURE FILM **FESTIVAL**

Burr Oak Woods Conservation Nature Center in Blue Springs. December 26, 10 a.m.-3 p.m. For more information, call 816-228-3766.



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 20 to find out.

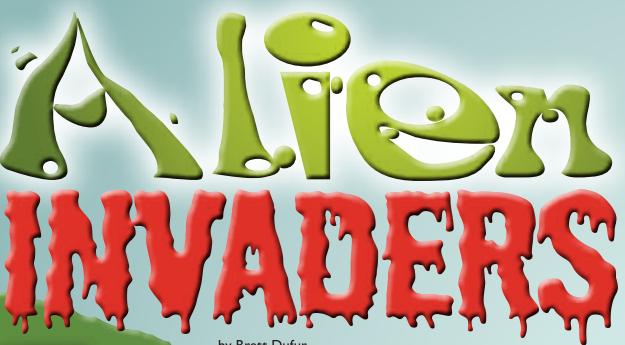


- 1 like to chill.
- 2 I only bloom on frosty mornings.

- 3 I hang out for a few hours, then I'm gone.
- 4 Sometimes I look like cotton candy. Yum!







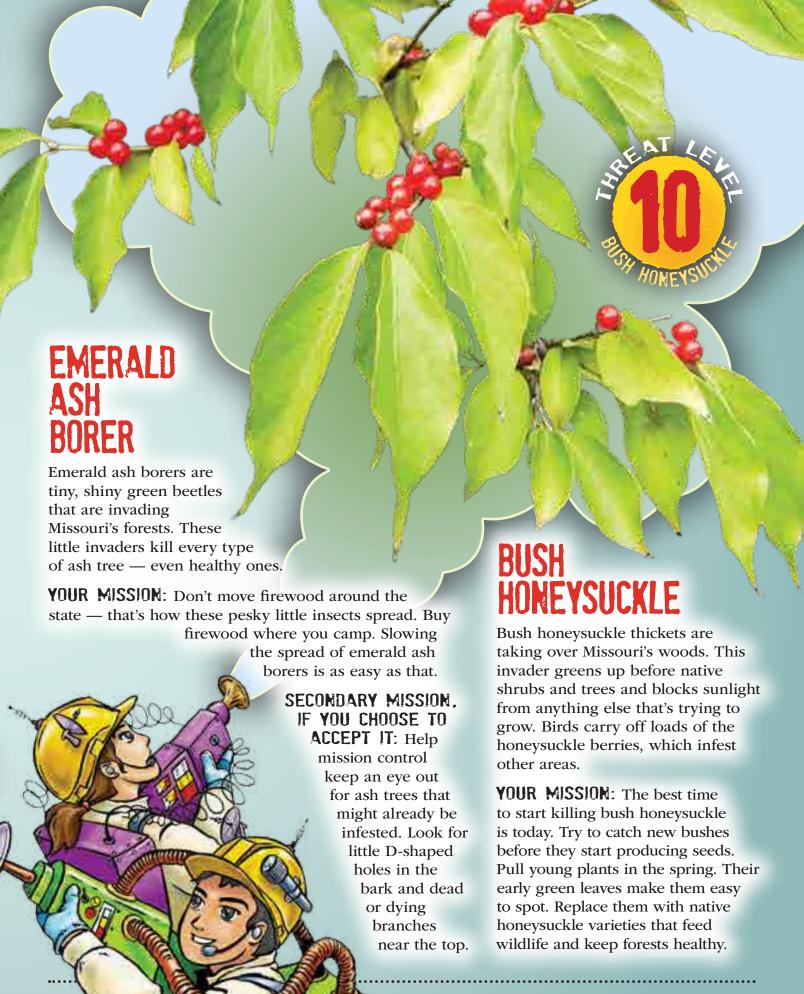
WE'RE SURROUNDED! IN YOUR HANDS

by Brett Dufur

There's a battle being waged against alien invaders that are trying to overrun the outdoors. Alien invaders aren't just from outer space, some come from across state lines. These invaders, often called invasives, include fast-growing, pesky plants and animals that push out Missouri's plants, fish, and wildlife. When these invaders move in, they can ruin the water, food, and shelter that Missouri's animals need to thrive. Your mission is to battle these alien invaders. But beware — it won't be easy. As you encounter each alien invader, we'll radio you your mission.

50. **50. 50** [

David Cappaert, Michigan State University, Bugwood.org 6 XPLOR







SMALL GANE

HUNTING

by Matt Seek

Deer and turkeys are fun to hunt, but if you've never shouldered a gun, why not start with something smaller? Hunting doves, quail, squirrels, and rabbits doesn't require lots of expensive gear, and it's tons of fun.

Here are a few tips to get you started.



KNOW BEFORE YOU GO

Hunting is an activity you learn by doing. The best tip we can offer is to find an experienced hunter to show you the ropes. A good teacher will offer pointers you'd never learn from the pages of a magazine.

- The Conservation Department offers workshops to help you hone your hunting skills. Find one at mdc.mo.gov/events.
- Pick up a copy of A Summary of Missouri Hunting and Trapping Regulations at Conservation Department offices or sporting goods stores. This booklet contains rules you need to follow when hunting.



Looking for a place to hunt?

A conservation area — with good populations of small game — is usually a short drive away. Find one at mdc.mo.gov/atlas.







SOUIDINEL

What's not to like about squirrel hunting? Squirrels can be found in nearly any patch of trees. You don't need special gear to hunt them. And as a meal, bushytails taste better than nearly any other game animal.

GET OUT

Squirrel season runs from late May to mid-February. To find squirrels, learn to ID trees. In June, mulberry trees offer a sweet feast for hungry squirrels. In August and September, oaks and hickories drop a buffet of nuts. Hit the woods early in the morning or late in the afternoon when squirrels search for food.

GAME ON

- Walk slowly and stop often to listen and scan the treetops. If you find a pile of nut shells, sit nearby and watch for bushytails.
- To find squirrels, shake the branch of a low-growing tree and bark like a squirrel: cherk, cherk, cherk. Nearby squirrels will usually bark back.
- Try to shoot when a squirrel peeks from behind a branch and only its head is visible. Head shots limit the number of pellets in the meat.

GEAR UP

Camouflage helps you blend in as you sneak through the trees.

Fox squirrel

Ticks can be thick in the squirrely woods. To keep bloodsuckers at bay, spray your clothes with permethrin.

> Weather during squirrel season is often hot, so pack plenty of water.

Sturdy boots are best, but tennis shoes work fine.

Use shells loaded with number 6s.

A small foam pad, like one used for boating, makes sitting more comfortable.

GET OUT Rabbit season rur

Rabbit season runs October 1 to February 15. Rabbits thrive in weedy areas that have plenty of thickets, briers, and brush piles to hide in. Many hunters don't hit the fields until the first snow, but good hunting can be had in October when rabbit numbers are often higher. Late afternoon, especially if there's snow on the ground, is a prime time to hunt.

Rabbit hunting can be chilly, so wear a stocking cap to keep your noggin warm. **GEAR UP**

An orange vest and hat helps other hunters see you.

A thermos of cocoa will warm you up from the inside out.



GAME ON

bricking brush piles, brier brambles, and patches of shrubby cover will often cause a rabbit to dart out. Wait for the rabbit to run into an open, brush-free area before taking a shot.

A good way to find where rabbits are hiding is to follow their tracks in newly fallen snow.

Hunting with beagles is tons of fun, but be careful! In tall brush, it's easy to mistake a short-legged dog for a long-eared rabbit.

Shotgun shells loaded with number 6 shot work great for rabbits.



Insulated boots will keep your toes toasty.



Following a barking beagle as it boogies through the brush chasing bunnies is one of the best ways to spend a snowy winter day. But you don't need a dog to hunt rabbits. Walking through a few fields or meadows is sure to scare up some cottontails.

THE STRUCCLE TO SURVIVE ISN'T ALWAYS A FAIR FIGHT

THIS PEREGRANGE FAILS OF David Besenge VS NORTHERN-PINTAIL

Sky Diver

Peregrine falcons are the world's fastest birds. Rocketing down like a comet, their dives can start a half-mile above their prey and reach 260 miles per hour.

Eyes on the Prize

An extra pair of see-through eyelids act like built-in goggles to help the peregrine maintain razor-sharp focus during its dives.

Wide Eyes

A pintail has a super-wide view thanks to eyes on the sides of its head. Ducks see three times farther than humans, making a duck's vision its most powerful sense.

Feathered Friends

Pintails join large flocks with all sorts of other ducks. Flying in flocks gives them a thousand eyes in the sky to watch out for falcons.

Bull's-eye! With talons outstretched, a peregrine can strike a duck with enough force to stun or kill it.

Dive Bomber

Fast Fliers

Pintails are strong, fast fliers. Their wings are sweptback, rather than straight out like other ducks. Pintails can take flight easily by leaping right up from the water's surface.

and the VINNER IS.

SILIBIANTES

YOUR GUIDE TO ALL THE UNUSUAL UNIQUE.

AND UNBELIEVABLE STUFF THAT GOES ON IN NATURE

Who needs a sled when you have a slick, furry belly? To move through the snow, RIVER OTTERS build up

speed then tuck their legs to their sides and sliiiiide. If a slope is really slick, otters often slide down it over and over again just for fun.

When it isn't hanging in hallways causing couples to kiss, MISTLETDE grows in trees. Birds eat the plant's berries, which are filled with sticky jelly and a single seed. When birds poop, the seeds stick to branches, take root, and begin growing.

To keep from turning into frogsicles, some BULLFROGS burrow into mud at the bottom of rivers and ponds during winter. But being snug as a frog in the mud has drawbacks. If oxygen runs low, the frog must swim to a new spot or it could croak.

When weather turns nippy, FLYING SQUIRRELS snuggle together inside hollow trees. Their furry bodies can warm the den by 30 degrees, and the more squirrels

there are, the toastier it gets. Fifty squirrels have been found packed into a single tree!



When insects are scarce, WHITE—BREASTED NUTHATCHES go nuts for nuts. The little birds, which are often seen creeping headfirst down

trees, are named for their habit
of cramming acorns into bark
then pecking them open to
"hatch" out the seed.

Bad ear day: An OPOSSUM'S

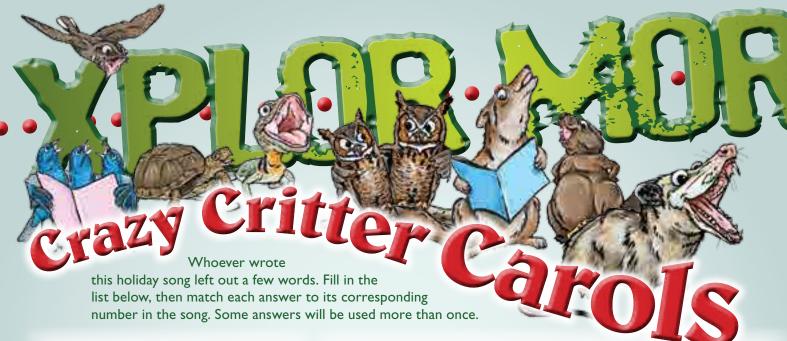
ears and tail are practically hairless.
This can cause problems in winter.
Without fur to keep them warm, the tips of these body parts often freeze and fall off.



Tower, we're going to need a longer runway. To take flight, AMERICAN COOTS pitter-patter across the water's surface, flapping their wings furiously. The chubby birds must run for several yards to get airborne.







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13. Adjective:			

- 14. Method of transportation:
- 15. Verb that ends in "ed":
- 16. Emotion:
- 17. School subject:

₽ Song ₽

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WHAT IS?

Frost flowers aren't really flowers at all. They're delicate, beautiful ribbons of ice crystals. Frost flowers form when sap freezes inside a plant's stem. As more sap rises from the roots, the ice crystals

you'll go down in 17. _____."

push out, forming unique shapes. Look for these rare winter delights after a cold snap, before the morning sun melts them away.





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FREE TO MISSOURI HOUSEHOLDS



When you are in the Ozarks, listen for the unforgettable squeal of an elk. Elk are a chatty bunch. Male elk, called bulls, bugle to attract females, called cows. Bulls also bugle to show their dominance over other males. They grunt when cows stray from their harem. Cows bark to warn of danger, mew to keep track of each other, and whine softly to signal to their calves. Hear an elk bugle at xplormo.org/node/11280.