

BY JAMES HALFPENNY

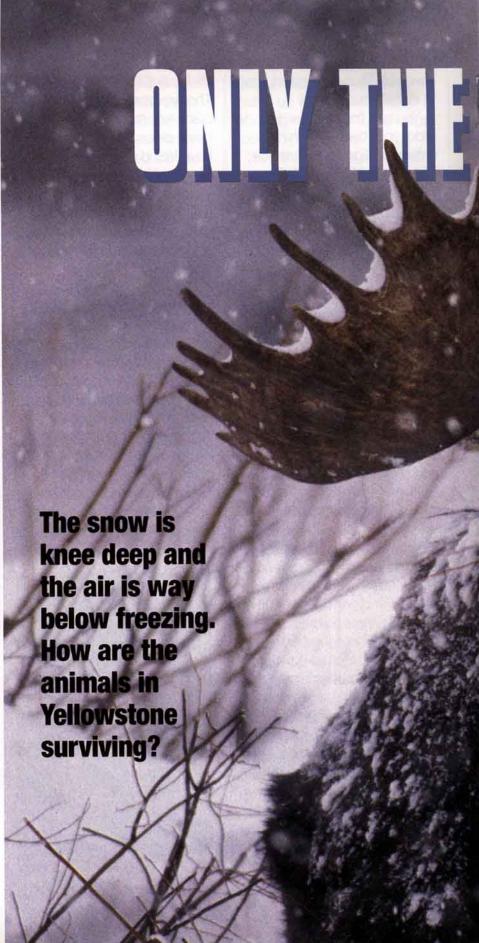
Winter is a great time for a scientist like me to spy on wild animals. And my favorite place to check them out is Yellowstone National Park (**see map**). Snow turns the park into a wonderland. And everything is so peaceful in winter. That's because most visitors stay away when the snow gets deep.

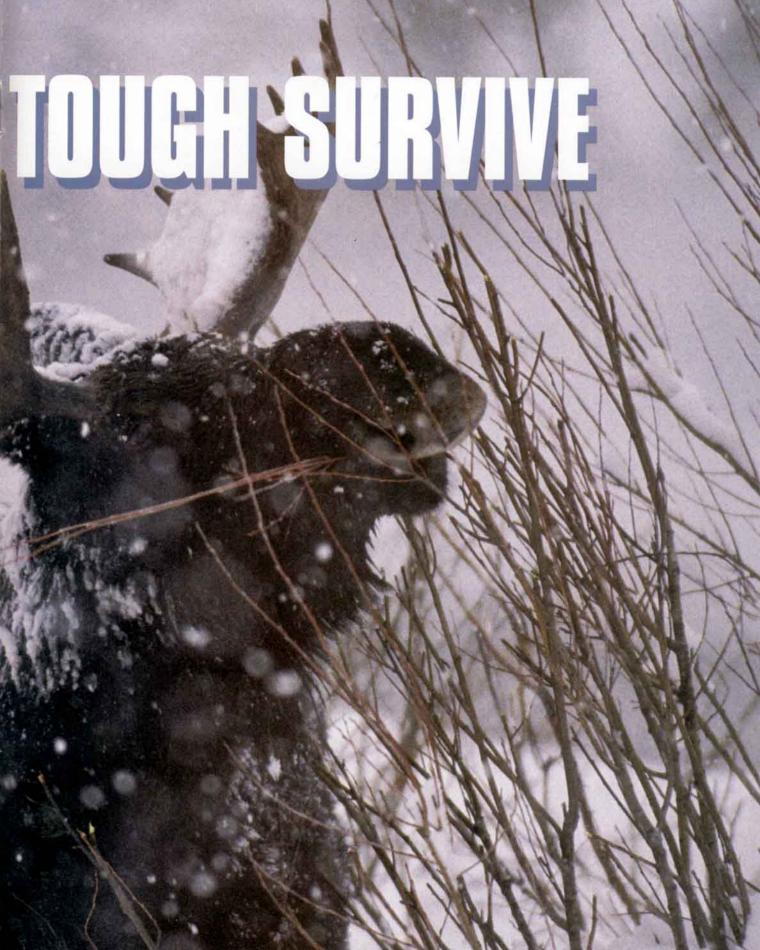
I'm always amazed at how well some animals survive in weather that's 40° below zero. And I'm not talking about the hibernators (HI-bur-nay-turs)—the ones that sleep the winter away deep inside their burrows. Lots of other animals, such as the moose shown here, survive in weather so cold you could hardly stand it. How do they do it?

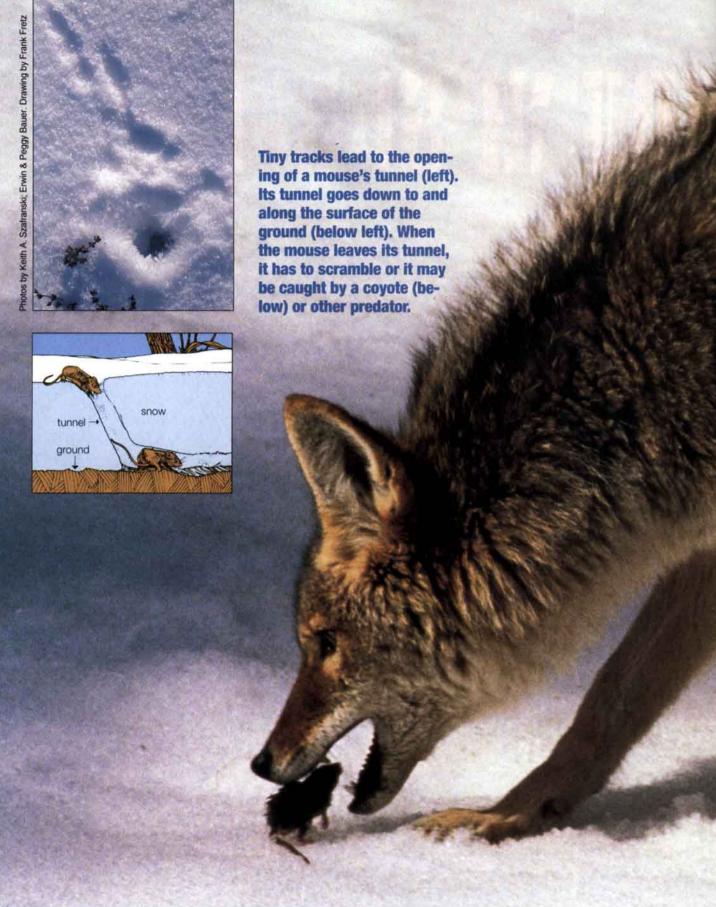
## A THICK, WHITE BLANKET

One way to survive is to use the snow as a blanket. When mice dig tunnels under the snow, the snow keeps their body heat from escaping into

This big moose is right at home in a winter storm. Deep snow doesn't stop him from walking along. And he's always on the lookout for willow branches to nibble.









If the mouse gets too cold while it's outside, it quickly digs into the snow. In its tiny snow cave, the mouse warms up. Then it can continue its trip.

Mice usually wait till it's dark out before they leave their tunnels. That way their enemies are less likely to catch them. But a dark mouse on white snow is still pretty easy for owls and coyotes to see, even at night. So watch out, mice!

## **DIVING INTO TUNNELS**

Even under the snow, mice aren't safe from enemies— especially when the snow is shallow and soft. Coyotes hunt for them by listening for tiny squeaks. When a coyote hears

a squeak, it springs high into the air. Then it dives nose-first through the soft snow. Sometimes the coyote comes up with a mouse in its mouth. Often it misses, though. And if the snow is deep or the surface is icy, the coyote may go hungry.

## **SNOW SINKERS**

Large animals are too big to run around in tunnels under the snow. So they have to do the best they can on the surface. Trouble is, many animals sink into the snow, which really Fluffy, furry feet help the lynx and the snowshoe hare sidm across the top of the snow (below). For the white-tailed deer (right), it's much tougher going. The deer's small feet sink deep into the snow.



slows them down. And animals that can't move fast often become easy prey. So how do big animals survive when deep snow is everywhere?

Moose can pull their long legs out of chest-deep snow as they walk. And they can stand on their hind legs to nibble high branches. But elk, deer, and bison have to struggle as much as we do when we try to walk through deep snow. And

the snow makes finding food even harder for these animals. The grass they like to eat may be buried under deep snow. Here's what trying to find food in winter is like for them:

Pretend you're an elk. Now imagine that a box of cereal is all the food you have for one year. In spring, when there's plenty of grass, it's like eating the cereal inside the box. But in winter, you have to start eat-

