

When a tree dies, insects such as carpenter ants and long-horned beetles A dead tree is a wildlife hotel and restaurant..

dead trees and feed on the decaying wood. Even though the tree itself is move in. These insects and their larvae find shelter beneath the bark of dead or dying, before long it will be teeming with life of another kind.

are often found in snags and chipmunks are attracted by Small mammals such as deer mice the bonanza of insects that logs. Flying squirrels their homes in standnear a wood's edge. They may also make ing snags or down live in dead wood. woodpecker MIMOD

> Small birds feast on the insects that colonize dead wood. Some of these

birds, such as woodpeckers and nuthatches, can also chisel nest cavities out of standing rotting trees called snags. In future years, bluebirds and abandoned by these birds. tree swallows will nest in the cavities

and garter snakes. red-backed salamanders for amphibians and reptiles such as Snags and dead wood provide habitat

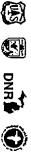
bluebird

other small organisms ports the insects and The decaying wood also sup-

these animals eat.

garter snake

pileated woodpecker



as the badger and red-tailed hawk.

support small birds and mammals. This "critter

cafeteria" sustains a variety of predators that ive higher up the food chain—predators such

wood feeds insects, which in turn

tant to predators too. Decaying

but dead wood is imporimmediately obvious,

It may not be





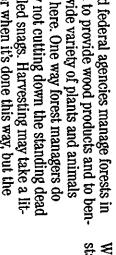




### There's Life in Dead Trees

#### How forest managers help wildlife

State and federal agencies manage forests in efit the wide variety of plants and animals this area to provide wood products and to benlong-term payoff to wildlife is wel tle longer when it's done this way, but the this is by not cutting down the standing dead that live here. One way forest managers do rees called snags. Harvesting may take a lit-



#### How you can help wildlife

standing trees that have: When cutting firewood, don't cut

- paint marks or wildlife signs (these trees contain wildlife homes
- (these trees might contain wildlife broken tops or holes in the trunk
- visible nests

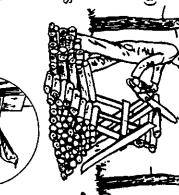
per acre (an acre is about the size of a football field) Try to leave 4 or more dead trees

#### Remember:

The larger around a dead tree is, the more useful it is for wildlife Small groups of dead trees are more

valuable to wildlife than single snags

allowed in designated areas of standing trees when working around dead, Forests. Stop at a National Forest the Huron-Manistee National Regulated firewood cutting is Take extra safety precautions office for more information.



help wildlife by building and erecting beneficial as real snag trees, but many nest boxes. These boxes may not be as are not available. that lack natural tree cavities, you can In open, grassy areas or wooded areas kinds of animals will use them if snags



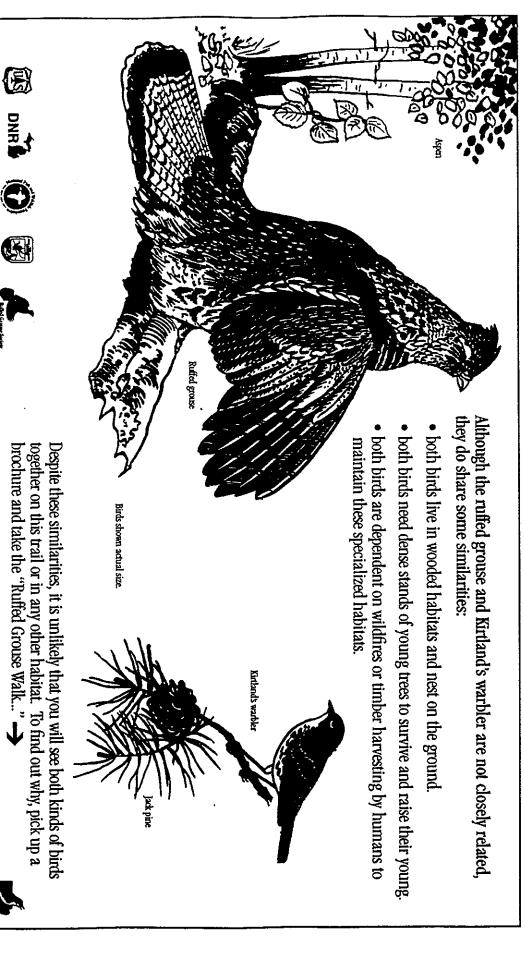








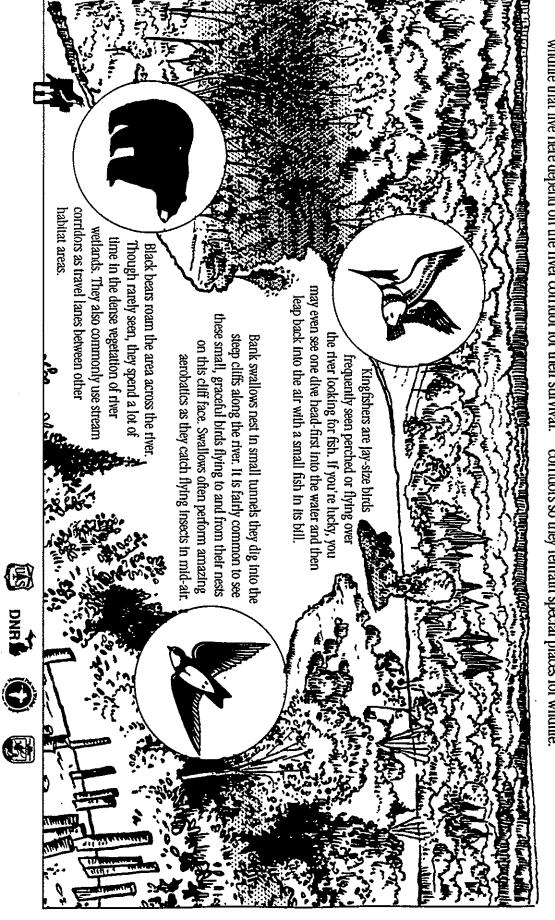
# Take the Ruffed Grouse Walk



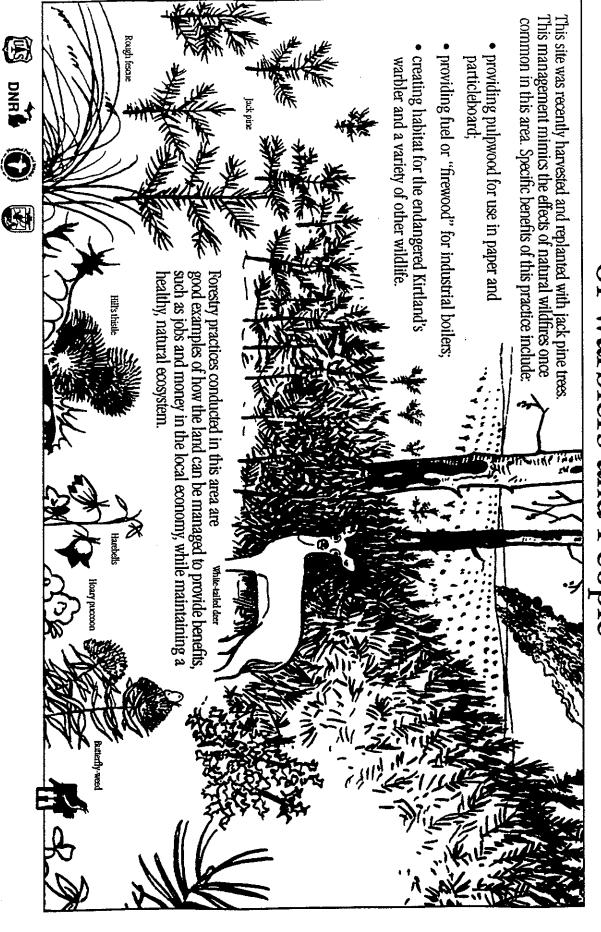
## A Special Place for Wildlife

The Au Sable River brings life to the dry, sandy hills found in this part of Michigan. The lush plant life and many unique kinds of wildlife that live here depend on the river corridor for their survival.

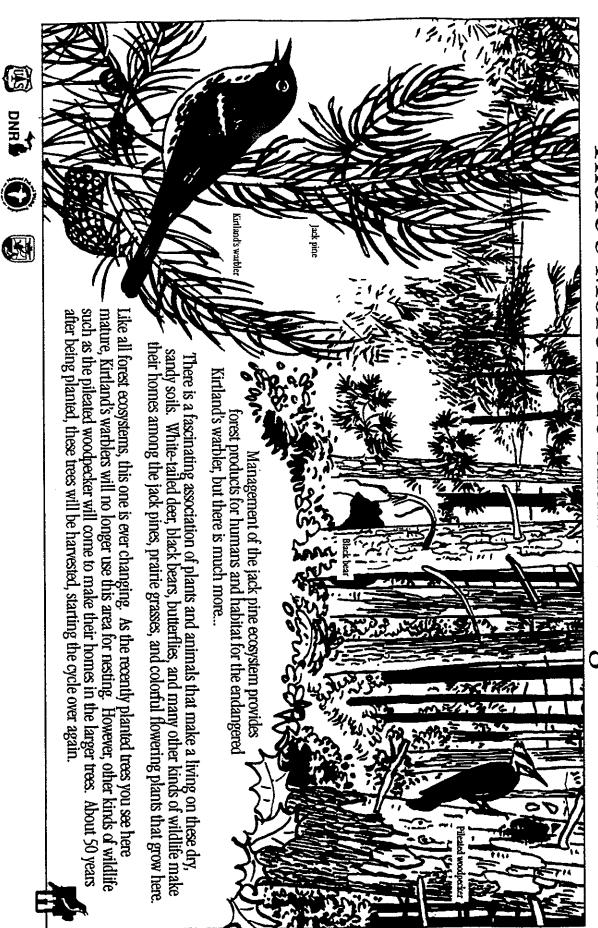
River corridors provide critical habitat for many plants and animals. It is important that we protect and conserve natural stream and river corridors so they remain special places for wildlife.



#### Of Warblers and People



# There's More Here Than You Migh



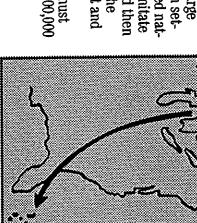
### -Nearly Ready for Warblers

#### Why are these clearcuts so large?

clearcut in front of you is 331 acres in size. It was cut and areas of jack pine forest for nesting. Before European set-Studies have shown that Kirtland's warblers prefer large replanted in 1988. To create the dense forest that replanting these areas with young jack pine trees. The the effects of wildfires by creating large clearcuts and ther urally by periodic wildfires. Today, forest managers imitate tlement, vast areas of nesting habitat were maintained nattrees out there! be planted on every acre of clearcut—that's nearly 400,000 Kirtland's warblers require, at least 1,200 seedlings must



Product Fall



Bahama islands

species with the special habitat they must vide the Kirtland's warbler and other species, including deer, coyotes, and blueblers also benefits many other wildlife Jack pine management for Kirtland's warbirds. By allowing large clearcuts, we prohave to survive. However this is only part of

#### See you next spring

our own backyards has farpoint out that what we do in from this place. They also for things that happen far for all of us to show concern warbler point out the need and journeys of the Kirtland's in the Caribbean. The life Bahamas—an island group Michigan winters. Instead hang around for the cold Michigan, but they don't Kirtland's warblers nest in reaching impacts on wildlife they migrate to the sunny half the world away.





aing air nog









#### is to Save All the Parts\* The First Rule of Intelligent Tinkering

other plants and animals that call this place home. the pines, the warblers, and the pine ecosystem, so if "saving all the parts" is Kirtland's warblers are an integral part of the jack important, then we must strive to protect

#### Picky, Picky, Picky

Kirtland's warblers will only nest and places—everything must be just right raise their young in very specific

- The forest must contain young jack pine trees 5-20 feet tall. (It takes 6-8 years for seedlings to get this tall, and they will only remain in this size class for about a dozen more years )
- The trees must be planted close together, yet there should be numerous small openings shrubs that grow in these openings and nest on the ground in the thick sedges and interspersed throughout the stand. (Warblers beneath the jack pines).
- The forest must grow on a special type of

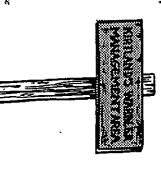
Kirtland's warbler with eggs

son and while rearing during their nesting seasensitive to disturbance

Kirtland's warblers are

their young. Because of

obeying the "Closed to Entry' signs. year. Please help the ing the breeding and posted against entry durthis, nesting areas are use the remainder of the They are open to public Kirtland's warbler by prood-rearing seasons.



seedlings were planted close together, original trees were clearcut, jack pine managed with these things in mind. The to benefit warblers and other wildlife. and numerous small openings were left The habitat you see at this site has been



"Aldo Leopold, A Sand County Almanac

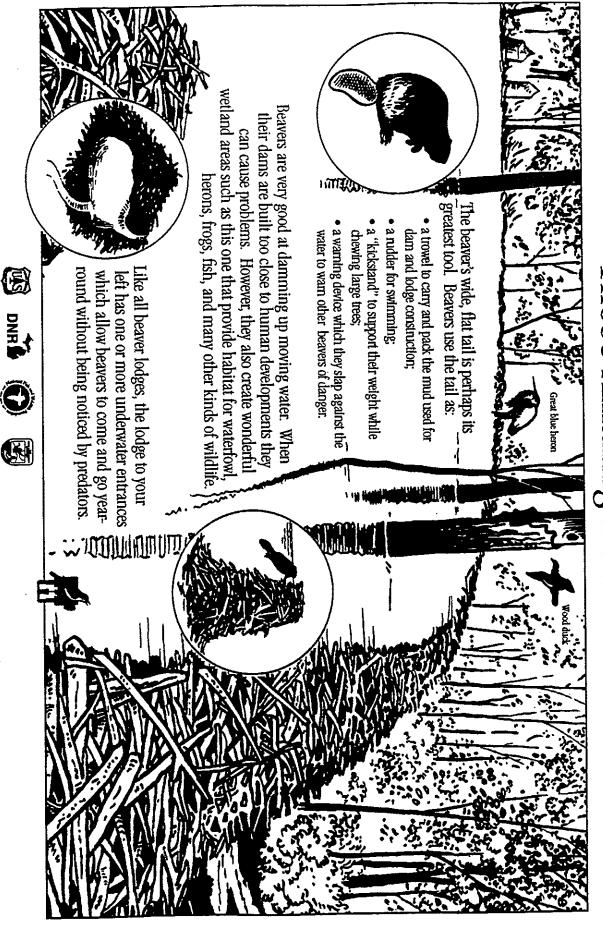




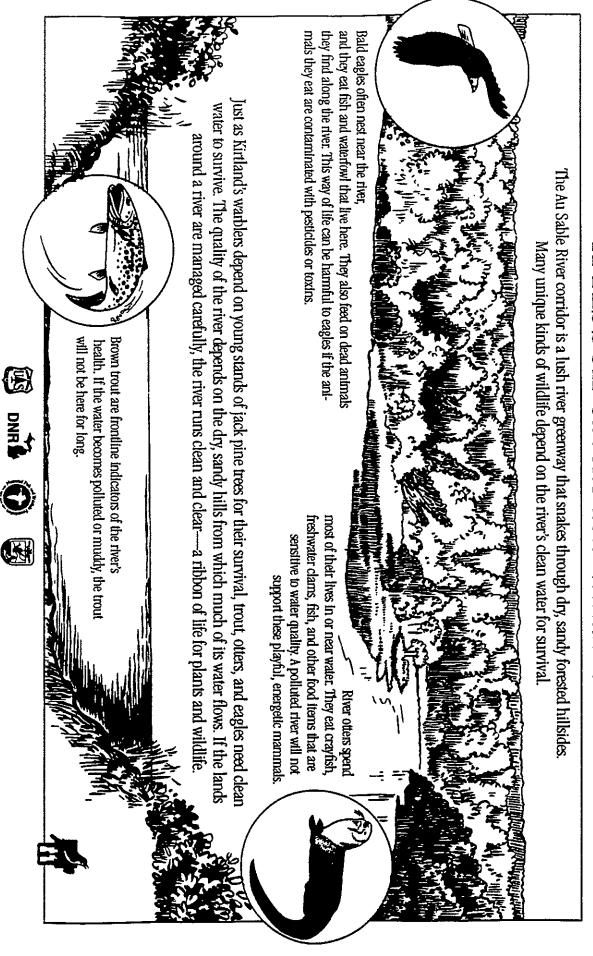




### Those Amazing Beavers



# A Ribbon of Life for Wildlife



### America's National Symbol

