Doingjustfine

We have heaters, parkas, and freezers full of food. Wildlife have found their own ways to survive winter.



WHITE-TAILED PTARMIGAN

Donald M. Jones

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RED FOX

BIGHORN SHEEP

NORTHERN RIVER OTTER

GRIZZLY BEAR

WHITE-TAILED JACKRABBIT Francis C. Bergquist

PRONGHORN Laura Verhaeghe

inter is a fact of life in Montana, and often of death, too.

1886-87. It began with a storm in November that left a one-inch crust of tragedy immortalized in Charlie Russell's painting of a single starving ice across the prairie. A December blizzard followed, then brutal cold in steer, Waiting for a Chinook (One of 5,000). late January that sent temperatures plummeting to minus 60 degrees F.

The worst one in state history may have been the winter of near Miles City. Cattle ranches lost 50 to 75 percent of their herds, a

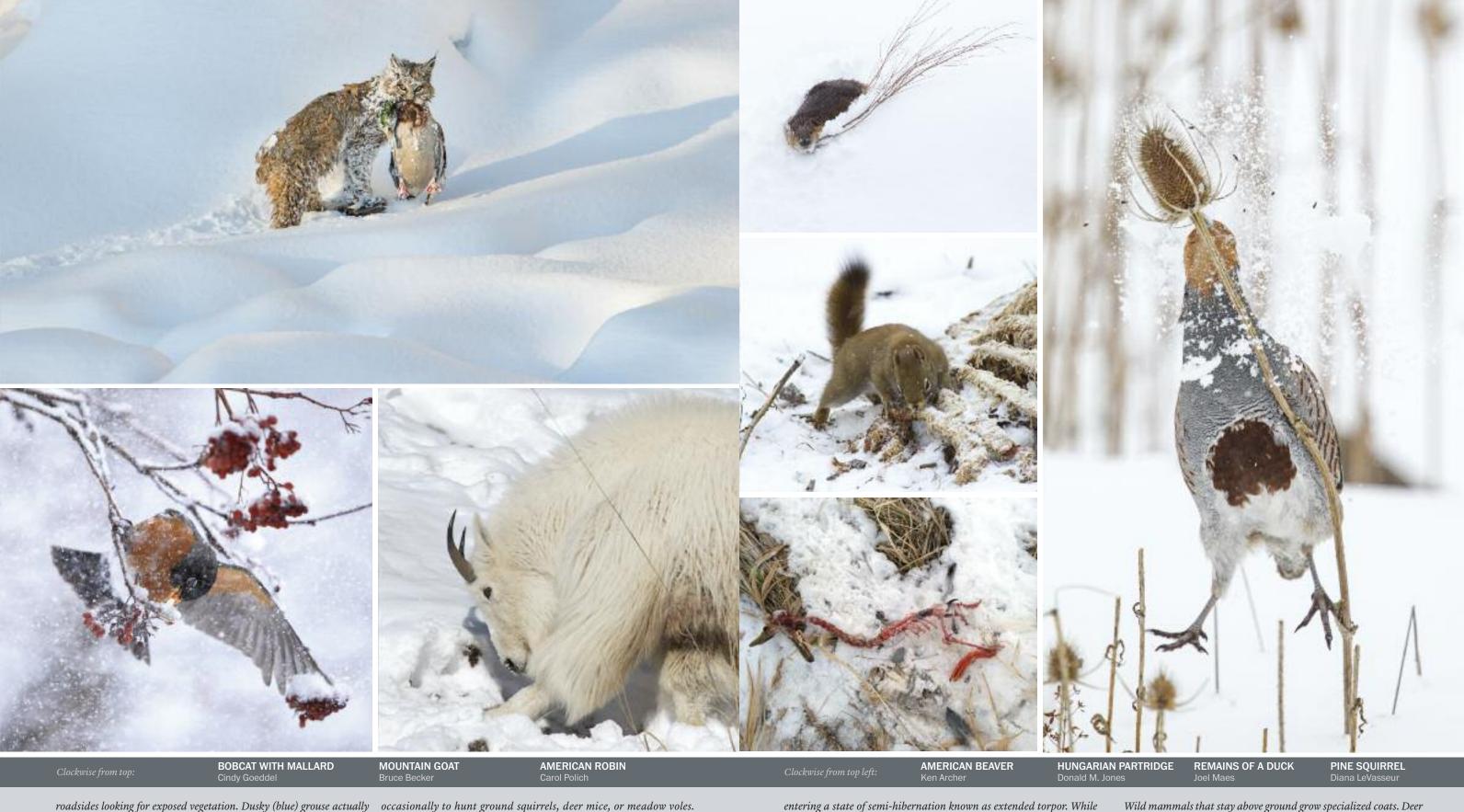
Even in recent memory, cold and snow reached near unbearable

levels. Record snows fell across the state in the winter of 1971-72. During an Arctic freeze in late January 1989, temperatures dropped to minus 52 degrees F. in Wisdom. The winter of 1996-97 shattered snowfall records again, especially in the state's western half, where residents of Kalispell struggled to dig out from under 12 feet of snow. The winter of 2010-11 dumped so much snow on eastern Montana that trains had to be fitted with plows. Pronghorn and mule deer died by the thousands.

Humans adapted to winter by inventing central heating, double-pane windows, and Thinsulate. Wildlife have found other strategies.

One is to leave. Most Montana breeding bird species head to the Gulf or Pacific Coasts, Mexico, or Central America. Those that stay are well endowed to endure the harsh conditions. Dense feathers extending down to their feet insulate sharp-tailed grouse from the cold. Magpies and crows survive on roadkill, which increases in winter as deer cruise

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roadsides looking for exposed vegetation. Dusky (blue) grouse actually hares turn white and disappear into their snowy surroundings.

Beavers, pikas, red squirrels, and Clark's nutcrackers cache food during late summer and fall for later retrieval. Badgers burrow under-

occasionally to hunt ground squirrels, deer mice, or meadow voles. head uphill in winter, living off fir and pine needles while roosting in thick Small rodents spend winter scurrying through labyrinths of snow tunconifer stands. To avoid predation, willow ptarmigan and snowshoe nels, feeding on seeds, sedges, and other bits of stored food when they aren't fleeing predators.

Some animals snooze through winter. The deepest sleepers are ground squirrels, whose rate of breathing plummets from 200 breaths per minute ground below the frost line and stay cozy in their dens, emerging to just one or two. With no flying insects to eat in winter, bats survive by

entering a state of semi-hibernation known as extended torpor. While hanging upside down in caves, barn lofts, and other "hibernacula," the winged mammals' body temperature declines and their metabolism slows to conserve energy.

Black bears and grizzly bears enter a similar semi-hibernation, bitter cold. waking occasionally in their dens—notably to give birth (nature's most effective alarm clock)—before falling back asleep.

and elk have hollow hair that traps body heat. Otter and beaver pelts are so dense that water can't reach the skin. A thick, woolly undercoat beneath a shaggy outer layer allows mountain goats to endure the most

Deer, elk, and other wild ungulates survive primarily on fat reserves built up in summer and fall when food was plentiful. Wolves, coyotes,

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PRAIRIE DOG

AMERICAN BADGER

MULE DEER Dick Walker

TRUMPETER SWAN

COYOTE Ed Coyle

mountain lions, weasels, and other predators hunt year round. The cold assist entire wildlife populations. season can be generous to meat eaters. Prey are weaker, more concentrated in their winter range, and often unable to escape pursuit.

Bird feeders can sustain individual chickadees, house sparrows, and barley, and other high-protein morsels well-meaning people often put juncos—plus the sharp-shinned hawks, pygmy owls, and house cats out. An elk or deer can actually die of intestinal infection with a stomthat feed on suburban songbirds. But that food supply is too minor to ach full of grain.

Feeding deer or elk, meanwhile, is not only illegal but often harms the very animals it aims to assist. Their complex digestive tracts are Is there anything we can do to help wildlife make it to spring? made to handle low-protein foods in winter, not the cracked corn, conifer stands in forests to cattail sloughs and tracts of native grass in tions at appropriate levels, wildlife biologists keep game numbers in prairies. The more suitable habitat that wildlife can use, the better they proportion to available habitat. can withstand what winter sends their way.

rolls in, there's not enough food or shelter for all, and the young, weak, ingeniously effective survival adaptations and strategies. 🐀

Two things do help. One is protecting winter habitat, from dense and sick die of cold and hunger. By using hunting to maintain popula-

While winter here in the Far North can be cruel, wildlife have found Another is regulated hunting. Lacking natural predators, deer, elk, ways to survive and even thrive in conditions that to us often seem and pronghorn can quickly overpopulate their living spaces. When winter unlivable. For the most part, all we can do is observe and marvel at their

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