



AUDUBON ROCKIES IS A REGIONAL OFFICE OF NATIONAL AUDUBON SOCIETY. WE WORK WITH PEOPLE AND COMMUNITIES TO PROTECT BIRDS AND THEIR HABITAT IN WYOMING AND COLORADO.

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DEDICATIONS

FOR DUSTY, MELIBE, AND AVENLEE - MY FELLOW SAGEBRUSH EXPLORERS.

- JTD

TO MY FATHER & MOTHER, FOR ALWAYS ENCOURAGING MY ADVENTUROUS SPIRIT.

- ZH





ZACHARIAH HUTCHINSON

ILLUSTRATED BY: ERIC M. STRONG

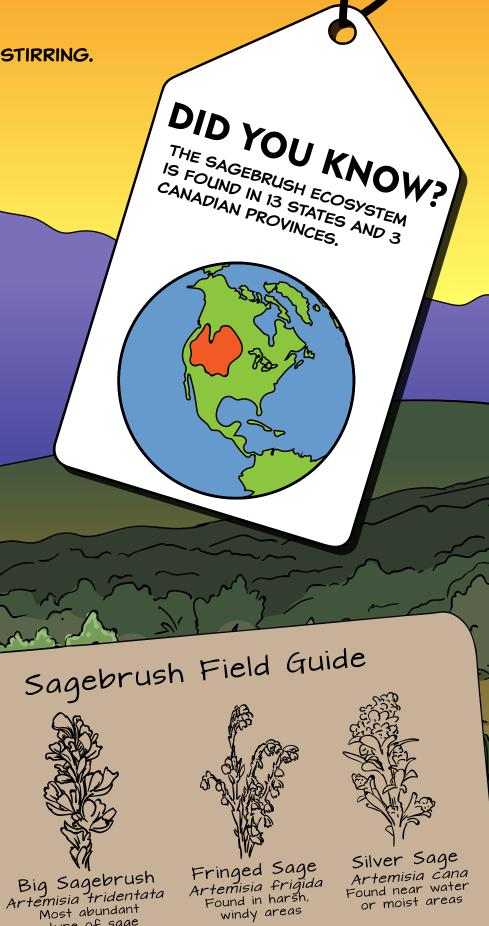


IN A SEA OF SILVER-GREEN NOTHING APPEARS TO BE HAPPENING. BUT IN A HOLE IN THE GROUND ...

...SOMETHING MORE IS STIRRING.

FUN FACT:

SNOW IS CAPTURED BY SAGEBRUSH AND HELPS THE WHOLE ECOSYSTEM BY STORING THIS MOISTURE FOR USE THROUGHOUT THE YEAR.





Most abundant type of sage

AS WE DIVE INTO THIS TUNNEL AS DEEP AS YOU ARE TALL, WE SEE THE FIRST GLIMPSE OF OUR HEROINE.

THIS NEW LITTLE CREATURE IS ROCKIE, A BURROWING OWL!

DID YOU KNOW?

IN THE SAGEBRUSH ECOSYSTEM, THE ROOTS OF MANY PLANTS DIG DEEPER THAN THE PLANT IS TALL. THESE ROOT SYSTEMS ARE THE KEY TO THE HEALTH OF THE WHOLE ECOSYSTEM BY PROTECTING SOIL, HOLDING MOISTURE, PROVIDING FOOD, AND CREATING IMPORTANT NUTRIENTS FOR OTHER PLANTS.

Sagebrush Field Guide Prairie dog burrows and tunnels are also used by rabbits, burrowing owls, rattlesnakes, salamanders, spiders and insects to escape predators, build nests and raise young.



SUDDENLY, A FACE APPEARS IN THE OPENING. IT'S ROCKIE'S MOTHER!

FUN FACT:

WHAT FOOD HAVE YOU

BROUGHT ME?

COWBOYS SOMETIMES CALLED THESE OWLS "HOWDY BIRDS," BECAUSE THEY SEEMED TO NOD IN GREETING FROM THE ENTRANCES TO THEIR BURROWS IN PRAIRIE-DOG TOWNS.

OH LOOK!

MY BROTHERS AND SISTERS WILL JOIN ME SOON!

Sagebrush Field Guide Burrowing Owls

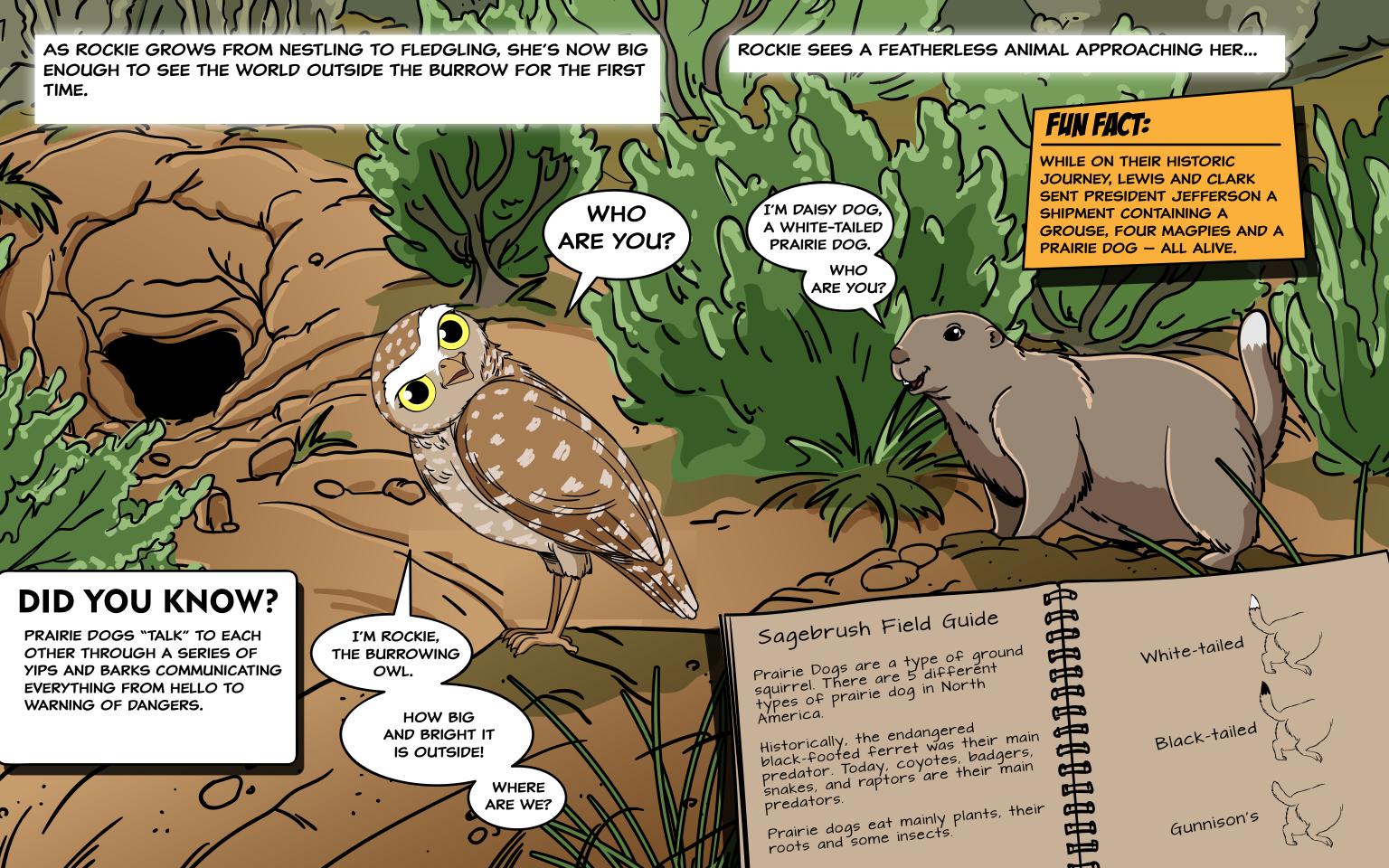
Burrowing owls lay between 3-12 eggs each year.

The nests are often in prairie dog or other rodent burrows using cow dung as nesting material! Young owls are called owlets.

These birds are 10 inches tall and unlike other owls, they are active during the day.

They eat mainly insects but also small rodents, amphibians, and reptiles.







AS THE TRIO EXPLORES OUTWARD FROM THE TOWN, THEY GET TRAPPED IN A CLOUD OF DUST. AS IT CLEARS, THEY MEET A NEW FRIEND!

FUN FACT:

PRONGHORN CAN REACH SPEEDS OF 55 MPH, MAKING IT THE SECOND FASTEST LAND ANIMAL (BEHIND THE CHEETAH).

WHAT'S ALL THIS COMMOTION?

THAT'S POLLY PRONGHORN AND HER EXPEDIENT FAMILY.

> PHEW, IT CAN **BE EXHAUSTING CHASING** EACH OTHER AROUND!

DID YOU KNOW?

PRONGHORN HAVE EXCELLENT EYESIGHT. NOT ONLY CAN THEY OUTRUN THEIR PREDATORS, BUT THEY CAN ALSO SPOT THEM FROM FAR AWAY, GIVING THEM A HEAD START!

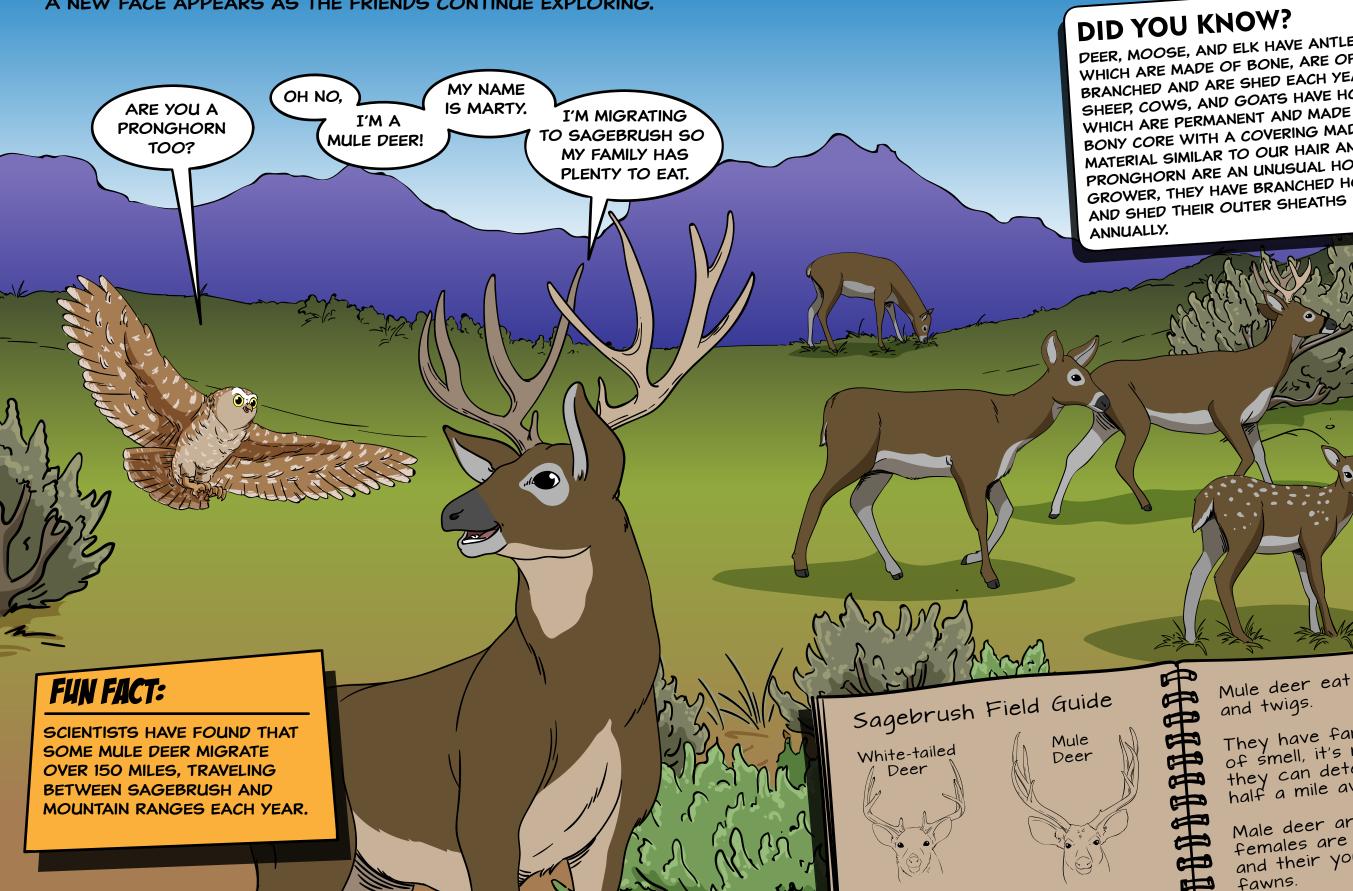
Sagebrush Field Guide

Pronghorn often have twins.

They eat plants including sagebrush and rarely need to drink water because they get most of what they need through their food.

Pronghorn have existed in North America for over 1 million years. So long, that original predators like the dire wolf and American cheetah went extinct many years ago.

A NEW FACE APPEARS AS THE FRIENDS CONTINUE EXPLORING.



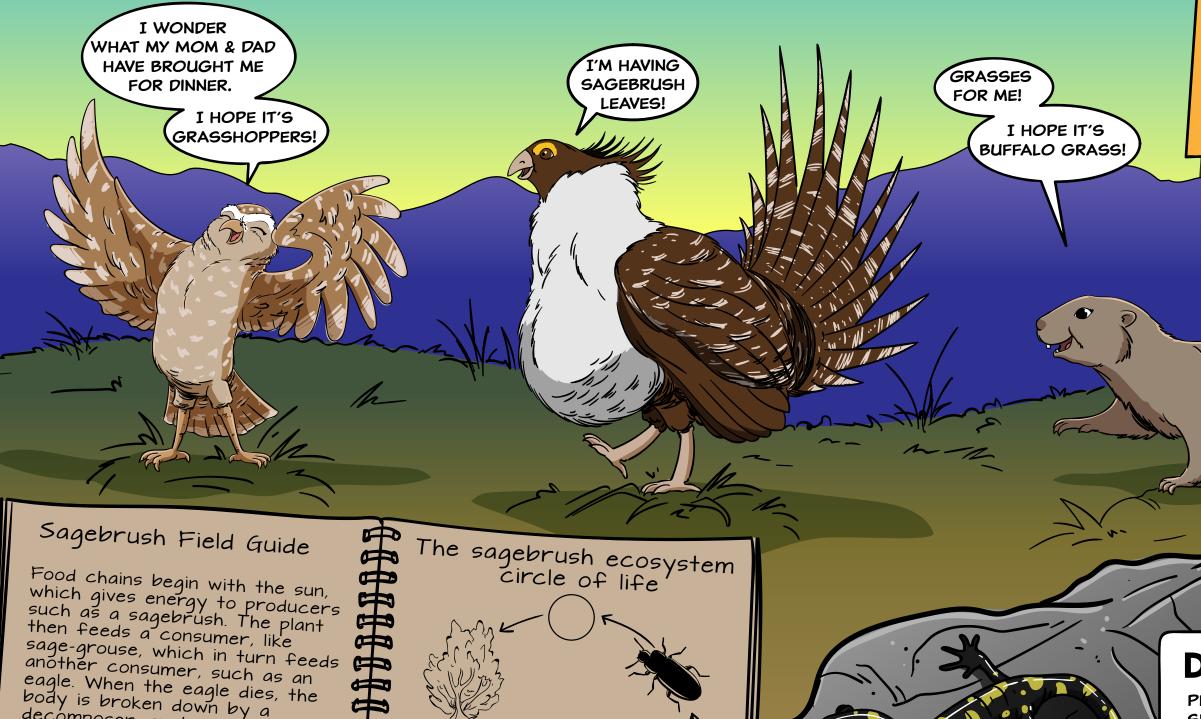
DEER, MOOSE, AND ELK HAVE ANTLERS WHICH ARE MADE OF BONE, ARE OFTEN BRANCHED AND ARE SHED EACH YEAR. SHEEP, COWS, AND GOATS HAVE HORNS WHICH ARE PERMANENT AND MADE OF A BONY CORE WITH A COVERING MADE OF A MATERIAL SIMILAR TO OUR HAIR AND NAILS. PRONGHORN ARE AN UNUSUAL HORN GROWER, THEY HAVE BRANCHED HORNS

> Mule deer eat shrub leaves and twigs.

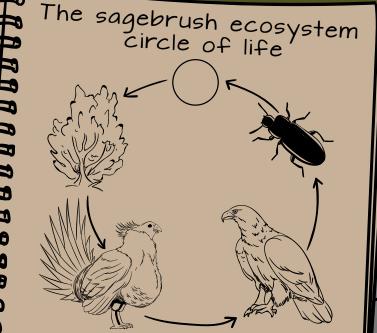
They have fantastic sense of smell, it's reported that they can detect predators half a mile away.

Male deer are called bucks, females are called does, and their young are called fawns.

ROCKIE YAWNS, AS SHE DECIDES TO RETURN TO HER BURROW.



eagle. When the eagle dies, the body is broken down by a decomposer, such as a beetle. The decomposing process supplies another plant to grow with the sun's energy.

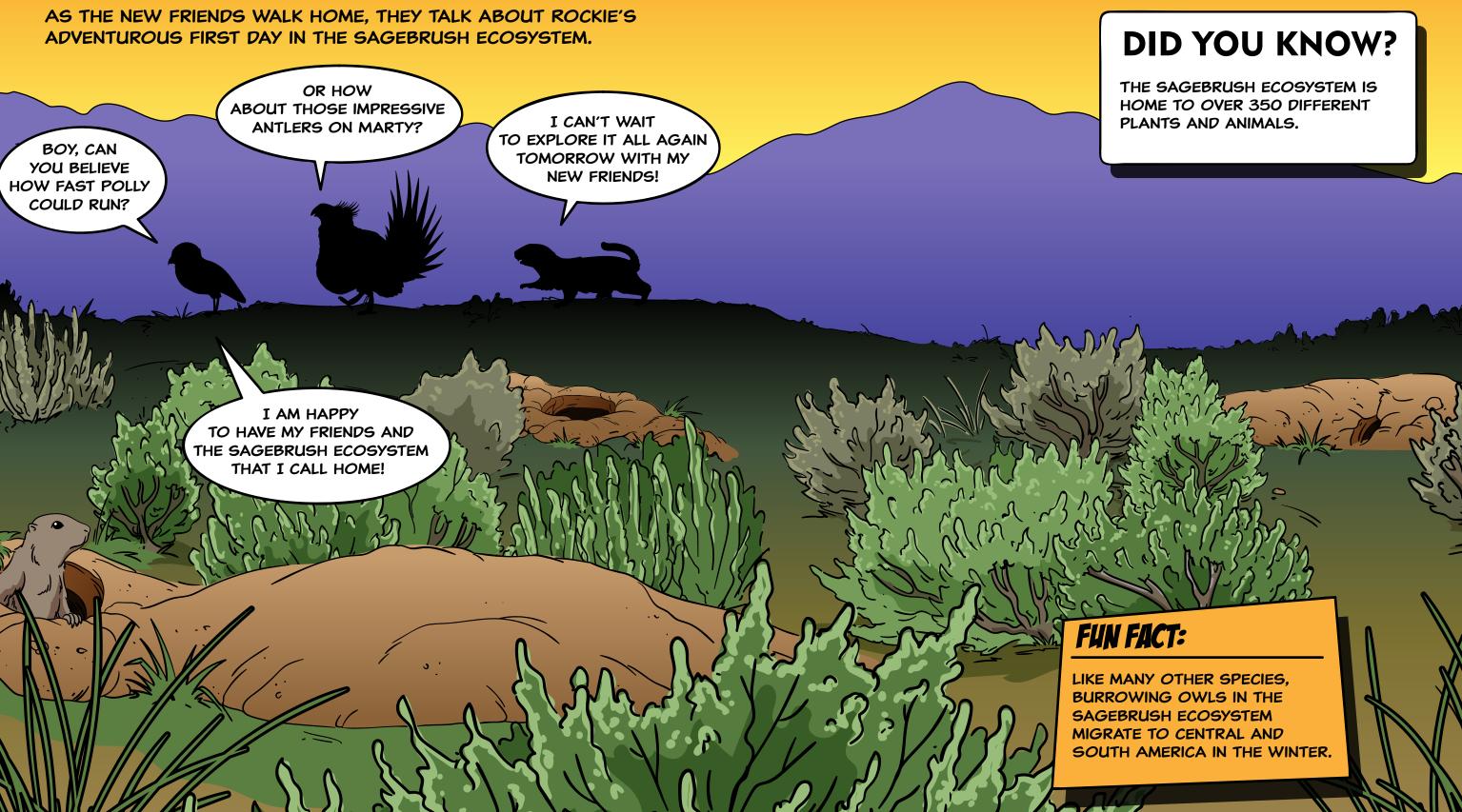




SAGEBRUSH GRASSHOPPERS DEPEND ON SAGEBRUSH THROUGHOUT THEIR ENTIRE LIFE. EGGS ARE LAID ON SAGEBRUSH AND ADULTS EAT THE LEAVES AND FLOWERS.

DID YOU KNOW?

PRAIRIE DOGS ARE A KEYSTONE SPECIES, IF THEY WERE REMOVED FROM THE ECOSYSTEM, IT WOULD CHANGE DRASTICALLY. MORE THAN 160 SPECIES DEPEND ON THEM IN SOME WAY!



VOCABULARY

ADAPTATION - AN ADAPTATION IS THE WAY IN WHICH AN ORGANISM HAS DEVELOPED UNIQUE FEATURES TO HELP IT SURVIVE IN ITS ENVIRONMENT. FOR EXAMPLE. THE PRONGHORN HAS HOLLOW FUR WHICH IS AN ADAPTATION THAT HELPS TO KEEP IT WARM IN THE HARSH WINTER.

ANTLER - ONE OF A PAIR OF BONY GROWTHS ON THE HEADS OF MOST KINDS OF DEER. THESE ARE GROWN EACH YEAR. ANTLERS ARE GROWN ONLY ON THE MALES WITH THE EXCEPTION OF CARIBOU AND REINDEER WHO GROW ANTLERS ON BOTH THE MALES AND FEMALES.

CONSUMER - AN ORGANISM. USUALLY AN ANIMAL. WHICH GENERALLY OBTAINS FOOD BY FEEDING ON OTHER ORGANISMS OR ORGANIC MATTER. FOR EXAMPLE. A MULE DEER IS CONSIDERED A CONSUMER OF PLANTS.

DECOMPOSER - AN ORGANISM, SUCH AS A BEETLE OR MUSHROOM, THAT FEEDS ON DEAD AND DECAYING ORGANISMS. FOR EXAMPLE. A MUSHROOM GROWING ON A FALLEN LOG GETS NUTRIENTS FROM THAT TREE AND OVER TIME. THE TREE WILL DECOMPOSE AND BE RETURNED TO SOIL.



ECOSYSTEM - A COMMUNITY OF LIVING

THINGS. ALL CONNECTED WITH THEIR ENVIRONMENT. THE SAGEBRUSH ECOSYSTEM IS A COMMUNITY OF MORE THAN 350 PLANTS AND ANIMALS AND IS CHARACTERIZED BY BEING DRY AND HOT IN THE SUMMER. COLD AND WINDY IN THE WINTERS AND DOESN'T GET A LOT OF MOISTURE.

FOOD CHAIN - A SERIES OF ORGANISMS IN WHICH EACH BECOMES FOOD FOR THE NEXT. FOR EXAMPLE, A SPARROW IS EATEN BY A WEASEL, WHO IN TURN IS EATEN-BY A FOX. A FOOD WEB IS MANY FOOD CHAINS INTERLOCKING.



HABITAT - THE NATURAL ENVIRONMENT OF AN ANIMAL OR PLANT. THE HABITAT OF A BURROWING OWL IS OFTEN IN AN ABANDONED HOLE IN THE GROUND MADE BY ANOTHER ANIMAL, SUCH AS A GROUND SQUIRREL. RABBIT. OR PRAIRIE DOG.

HORN - A HARD, HOLLOW GROWTH ON THE HEAD OF ANIMALS SUCH AS COWS, GOATS, AND SHEEP. THESE CAN BE FOUND ON BOTH THE MALE AND FEMALE. OFTEN TIMES THE MALES WILL HAVE MUCH LARGER HORNS THAN THE FEMALES. HORNS ARE USUALLY PERMANENT AND NOT SHED EACH YEAR AS WITH ANTLERS. PRONGHORN ARE AN EXCEPTION HAVING HORNS WITH AN OUTER SHEATH THAT ARE SHED YEARLY.

LEK - A PLACE WHERE MALES GATHER EACH SPRING IN ORDER TO DISPLAY DANCE-LIKE MOVES, IMPRESSIVE FEATHERS, ATTENTION GETTING SOUNDS AND OTHER ACTIVITIES THAT ATTRACT FEMALES. THE FEMALES WILL THEN CHOOSE A PARTNER BASED ON THESE DISPLAYS.

MIGRATION - THE MOVEMENT OF A GROUP OF ANIMALS FROM ONE PLACE TO ANOTHER AND IN MOST CASES. BACK AGAIN. THESE MOVEMENTS USUALLY TAKE PLACE IN SPRING AND FALL. FOR EXAMPLE, PRONGHORN HAVE THE LONGEST LAND MIGRATION OF ANY NORTH AMERICAN MAMMAL.

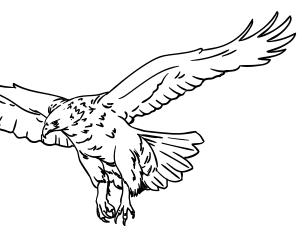
PREDATOR - AN ANIMAL THAT HUNTS OTHER ANIMALS FOR FOOD. FOR EXAMPLE. A BADGER IS CONSIDERED A PREDATOR OF SMALL RODENTS.

PREY - AN ANIMAL BEING HUNTED. CAUGHT, AN EATEN BY ANOTHER ANIMAL. FOR EXAMPLE. PRAIRIE DOGS ARE PREY TO FERRETS.

PRODUCER - AN ORGANISM. USUALLY A PLANT. WHICH IS CAPABLE OF MAKING ITS OWN FOOD. FOR EXAMPLE, A PEA PLANT CAN USE THE ENERGY FROM THE SUN AND THE NUTRIENTS IN THE SOIL TO LIVE, IT DOES NOT NEED TO EAT ANOTHER ORGANISM.

SAGEBRUSH - A BUSHY PLANT WITH GREY-GREEN LEAVES THAT HAS A PLEASANT PINEY SMELL. IT HAS WHITE OR YELLOW FLOWERS AND GROWS IN THE PLAINS OF NORTH AMERICA.

VOCABULARY







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