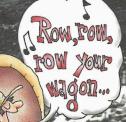
KIDS DISCOVER

THE INSIDER DIRT ON SOD HOUSES

EARLY AMERICAN ROOF GARDENS DID DANIEL BOONE GET LOST?

TO BEE OR NOT TO BEE?





IN PARTNERSHIP WITH

Houghton Mifflin Harcourt

What Is a Pioneer?

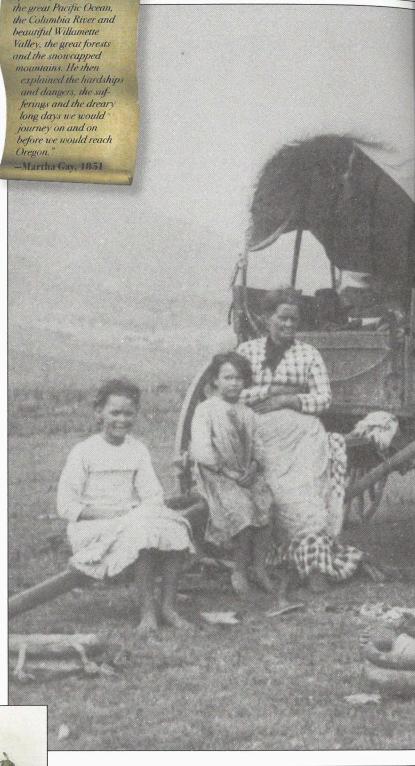
History tells us that pioneers settled the American West. But history also tells us that people as different as John Glenn, Rosa Parks, and Christiaan Barnard are pioneers. So what,

exactly, is a pioneer?

One dictionary says a pioneer is someone who opens a new area of research. It's also someone who gives others a chance. So John Glenn is a U.S. space pioneer because he was the first American to orbit Earth, Rosa Parks is a human-rights pioneer because she wouldn't give up her seat on a public bus in 1955, and this helped start the fight for equal treatment of African Americans. Dr. Christiaan Barnard is a pioneer in medicine because he was the first person to transplant a human heart.

The pioneers you will read about here are of another kind – people who settle a new territory. These are the thousands of pioneers who settled the American West. Proof of their determination, hard work, and groundbreaking effort is everywhere in the towns and cities

they helped build.

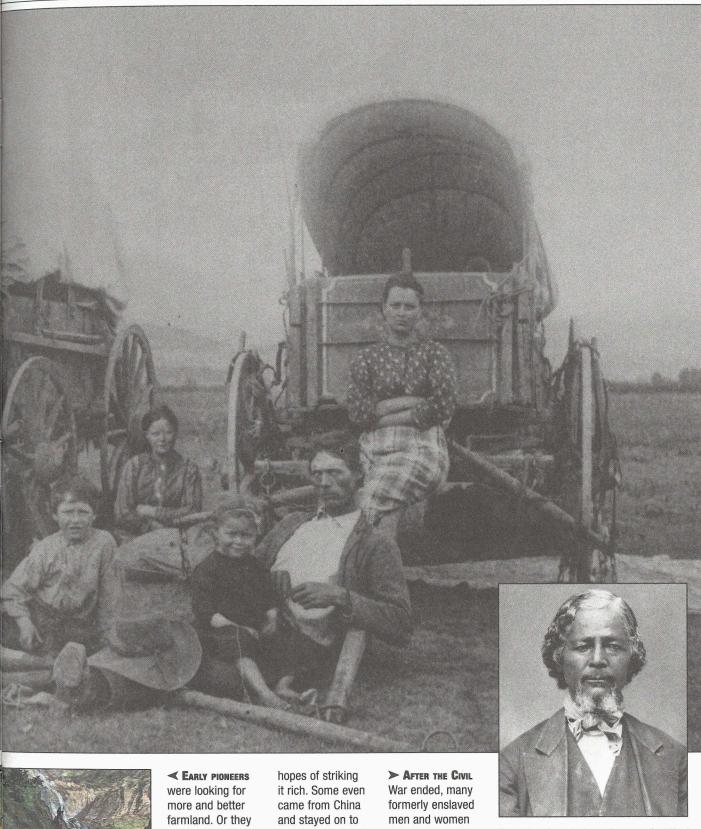


THE LAND THE
pioneers settled
was not empty.
Much of it was
home to Native
Americans like
these Mandan people (left). The Great
Plains were their
buffalo-hunting
grounds. They lived

[Father] told us about

off these lands. For many Native Americans, the pioneer settlement of the West led to broken treaties and loss of lands. It also put an end to their traditional ways of life.





▼ EARLY PIONEERS
were looking for
more and better
farmland. Or they
were simply looking for land of their
own. After gold
was discovered
in California in
1848, thousands
headed west in

hopes of striking it rich. Some even came from China and stayed on to help build the first railroad across the U.S. Others came west because they had broken the law and wanted a fresh start.

War ended, many formerly enslaved men and women decided to start their lives as free people far from the South. Benjamin Singleton (shown here) was born into slavery in Tennessee. In 1877,

Singleton founded an all-black community in Kansas. He led many African Americans freed from slavery in an exodus

(mass migration) from the South. These pioneers became known as Exodusters. **Early Pioneers**

Americans moved west in several huge waves. The first movement took place from the 1760s through the early 1800s. These pioneers crossed the Appalachian Mountains. They settled in the Mississippi and Ohio river valleys. The second movement took place between the 1840s and 1860s. It brought settlers from Europe, the East Coast of the U.S., and the Midwest. They went all the way across the prairies to the fertile valleys of Oregon and the goldfields of California. The last westward move began in the 1860s. These pioneers settled the Great Plains and turned the grasslands into farmland.

Many of the early pioneers (in the first wave) were looking for cheaper farmland. Cities and towns along the East Coast were getting more crowded, and good farmland was becoming rare and costly.



A DANIEL BOONE
spent his life blazing trails across
the frontier. In
1775, Boone and
a band of 30
woodsmen set
out to connect
some of the Native
American trails.
These stretched
from North
Carolina across the

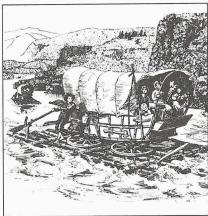
Appalachians into Kentucky. The road they made is called the Wilderness Road. For many decades it was the only usable route through the mountains to Kentucky. By 1800, this road had taken 200,000 pioneers west.



A ONCE WOODSMEN had blazed trails wide enough for wagons, many pioneers headed west in covered wagons called Conestogas. The wagons were named for the Conestoga Valley in Pennsylvania, where they were made. These large, heavy wagons hauled the first wave of settlers over the Appalachian Mountains.



and float the wagons across rivers on rafts.





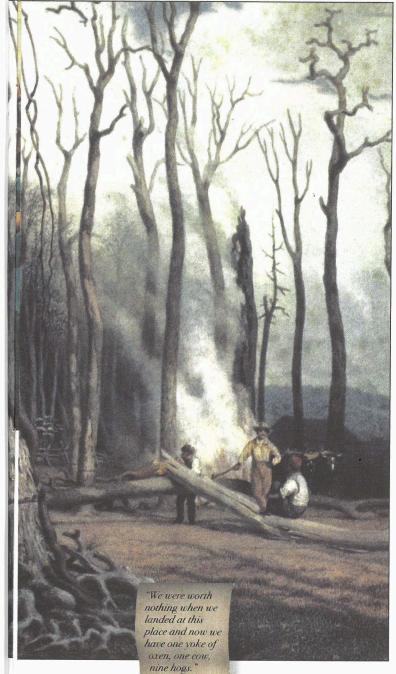
IN THE 1820s, PLACES SUCH AS KENTUCKY, OHIO, AND TENNESSEE WERE THE "FAR WEST." PIONEERS HAD NOT YET SETTLED THE GREEN AREAS ON THIS MAP.

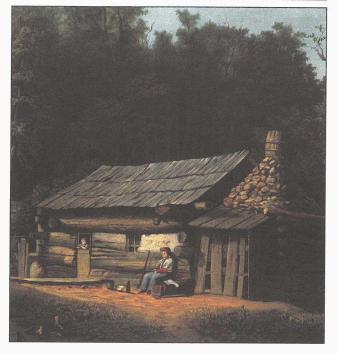


"No, I can't say as
I was ever lost, but I
was bewildered once
for three days."

IN AREAS WHERE no trails or roads existed, pioneers depended on rivers as their highways through the forests. Pioneers floated down the Ohio River on crafts like this flatboat (right). A boat could carry one family, a wagon, and several horses or other animals. Once a family reached its new home, it might take its boat apart and then reuse the wood for building.



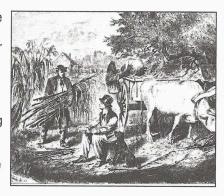


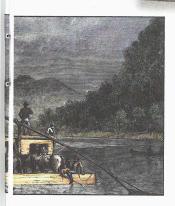


⋖ THICK FORESTS covered the land between the Appalachian Mountains and the Mississippi River. These forests were very dense. People said that a squirrel could jump from tree to tree for hundreds of miles without ever touching the ground. The first pioneer families cleared land for their farms by girdling trees (cutting a ring around a tree, causing it to die). Burning removed the stump.

As soon as they could, pioneers replaced temporary shelters with log cabins. Settlers cut notches close to the ends of the logs. That way

the logs fit together to make the cabin walls. Once the logs were stacked, empty spaces were filled with moss and mud.





➤ EARLY PIONEERS
depended on rifles
and axes. The
rifle gave them
protection. It was
also used to hunt
for food. The ax
was used to turn
trees into logs.
Logs were used
to build rafts or
cabins.

-John Watson,

Indiana, 1823



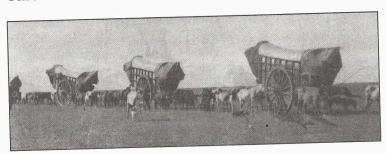
A BECAUSE CORN
was easy to grow
and store, it was
a main part of the
early pioneers'
diet. Families ate
cornbread, corn
mush, and cornmeal pancakes.
Leftovers were fed
to hogs, sheep, and
chickens.

Pioneers Move West

By the 1840s, pioneers were again on the move. In 1848, miners found gold in California. Americans caught gold fever. They headed west, hoping to get rich quick. Few did, but many went back east and told their friends about the unsettled country they had seen. Some pioneers sought fortunes in timber, fur, or precious metals. Others hoped for better health in the mild Pacific coast climate or came west for other reasons. From the 1840s to the 1860s, more than 300,000 people crossed the Great Plains and the Rocky Mountains to reach the Pacific coast. The route they took was called the Oregon Trail. Before pioneers began their 2,000-mile journey, they had to buy a wagon. They also had to pack it full of supplies. Then they had to join a wagon train.

The covered wagons that carried them became known as prairie schooners or ships of the plains. That's because the wind blew their canvas tops in and out

like a ship's sails.



✓ A GROUP OF WAGONS formed a wagon train. Traveling together offered protection from robbers and help in case of a breakdown. Wagon trains consisted of anywhere from 30 to 200 wagons.

COVER

This was made of canvas or cotton. Tied to the sides of the wagon bed, it protected travelers from rain and dust. When it became too hot inside, the cover could be rolled back.

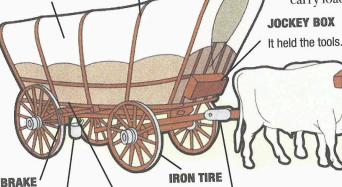
BOWS

These were made of hickory wood. They supported the canvas.

PRAIRIE SCHOONER ARTICULARS

The Conestoga wagons that settlers used to cross the Appalachians were too big and heavy to make it over the steep Rockies. Prairie schooners had

to be smaller and lighter so they didn't put too much strain on the oxen. But they also had to be strong enough to carry loads of up to 2,500 pounds.



GREASE BUCKET

It held the grease used to oil the wheels.

WAGON BED

This was a wooden box. It was usually about 4 feet wide and 10 to 12 feet long.

TONGUE

It connected the animals' harnesses to the wagon.

They moved slowly (about two miles per hour). But oxen were steady and easier to manage

than horses or mules. After they got settled, pioneers used oxen to pull plows.

PACKING

Once a family had a wagon, they filled it with supplies for the three- to five-month journey Every bit of space was used. To outfit a wagor train took many hun-dreds of dollars. Back then, most people carned only a few dollars a wee Many families got loan

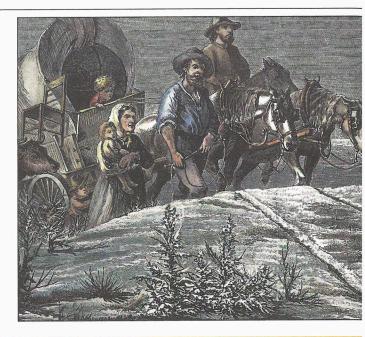
BEDDING

At night, people slept in tents, on the ground, or inside the wagon. Bedding consisted of wool blankets, feather beds, around cloths, and pillows

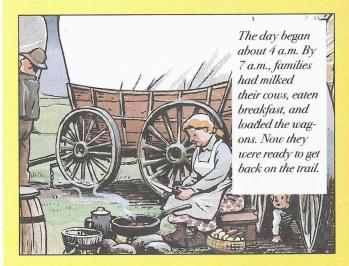


On the Trail

In the jumping-off town, the newly formed wagon train looked for an experienced guide who knew the route. No detailed road or trail maps existed. Each wagon train elected a leader called the wagon master. Most wagon trains left in late spring so they could get through the mountains before snow blocked the passes. They tried to reach Oregon in time to build homes before winter came. They couldn't leave much earlier than April or May, because grass had to be growing on the plains for their livestock to eat.



FROM DAWN TO DUSK

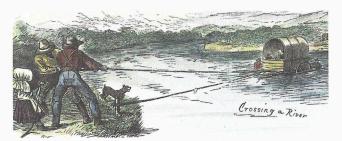




DANGERAHIEAD

Between 1835 and 1855, more than 10,000 people died on the Oregon Trail. Most died from accidents or diseases. They fell from wagons and got crushed under the heavy wheels. They drowned crossing rivers. Or they were shot in firearm accidents. Others died from drinking bad water or from such diseases as cholera, measles, or smallpox.

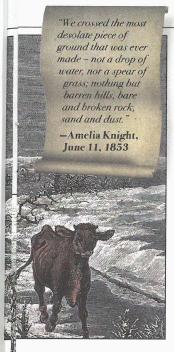
▼ RIVER CROSSINGS
could be deadly.
Hidden holes in a
shallow riverbed
could make an
ox fall. Then a
wagon might tip
over. It could
take hours to
get it up again.





◆ Going UP A
mountain in a
covered wagon
was tricky. Wagons
tipped over easily.

➤ Going Down,
wagons would go
faster. Sometimes
they rolled right
over the animals
before stopping. To
slow them down,
a driver could tie
a heavy log to the
back of the wagon.
When a mountain
was too steep to
ride down, wagon
parts were lowered
piece by piece.



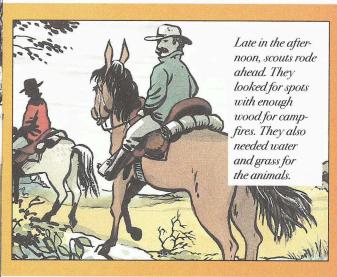
⋖ Wagon trains traveled up to 20 miles a day. The distance depended on the landscape. On days when the trains crossed rivers or climbed steep mountains, they might go only a mile or two. Most people walked beside the slow-moving wagons. Only the old, sick, and very young rode inside.

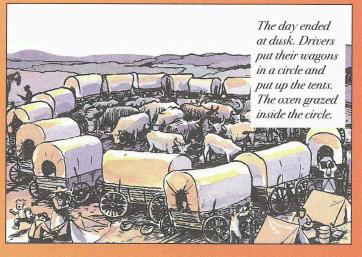


A THE OREGON
Trail crossed
buffalo-hunting
grounds. These had
been "given" by the
U.S. government
to various Native
American nations.
As more wagon

trains went west, the buffalo herds grew smaller. Because the Plains Indians needed these herds to survive, their way of life was destroyed. ▼ THE THOUSANDS of wagons that traveled the Oregon Trail made deep ruts. There are some places along the trail where you can still see them.









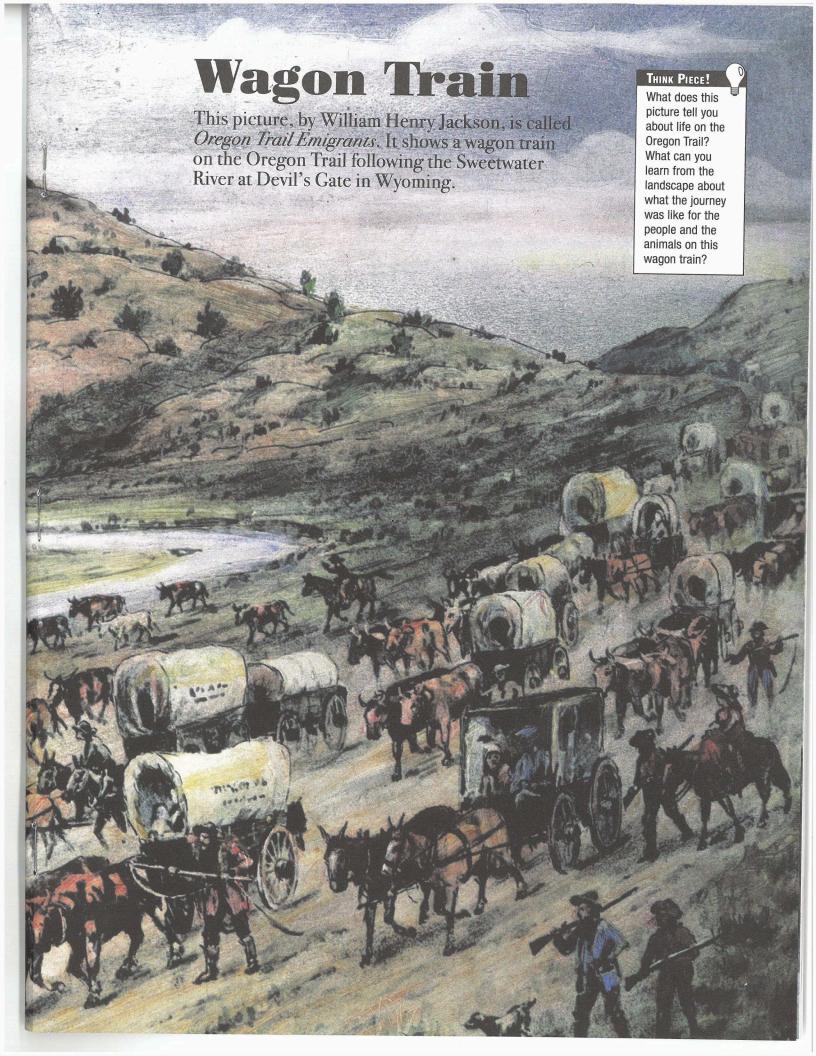
▼ On the trip west, time was the enemy. When wagons broke down, oxen died, or a horse or child wandered away, everything came to a complete stop. If too much time was lost, travelers found themselves crossing mountain passes in swirling blizzards.





▲ FAR FEWER
pioneers died
from American
Indian attacks
than most people
think. Movies,
stories, and TV
shows about the
West made Native
Americans seem

like a serious threat. But they weren't. About 10,000 pioneers died on the Oregon Trail between 1835 and 1855. Only about 400 were killed in such attacks. FROM THE FILM DANCES WITH WOLVES



Sodbusters of the Great Plains

The early pioneers, those who crossed the Appalachian Mountains, depended on trees and forests for food and shelter. Imagine starting over in a place with almost no trees – a place with blizzards in winter and swarms

▼ For MANY decades, the Great Plains attracted few settlers.



That's because most Americans thought it was too dry for farming. Some maps labeled the area the Great American Desert. Parts of the Great Plains were so dry that no trees grew there. The sod (the top layer of soil) had thickly matted roots almost 15 feet

➤ IN 1862, THE U.S. government passed the Homestead Act. This offered 160 acres of land to any adult who built a house on the property. The homesteader had to live in the house for at least five years. A lot of this land had poor soil, and the weather was harsh. But families eager to have a farm of their own headed west.

of grasshoppers in summer. For some pioneers, the hardest part of life was getting to their new home. But for the settlers of the Great Plains, known as sodbusters, getting there was easy compared to what came next.



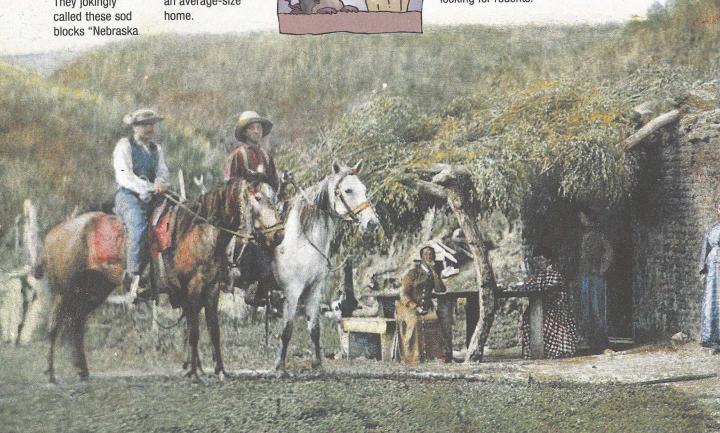
▼ THE FIRST TRANScontinental railroad was built in the 1860s. Pioneers could now travel west by train. That made the journey much faster, safer, and cheaper.

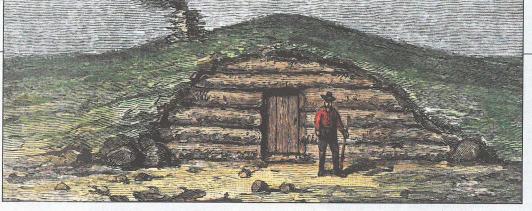


▼ ONCE THE PIOneers saw that sod could be sliced into blocks, they began building homes out of it. They jokingly called these sod blocks "Nebraska" marble." Building a sod house, or soddy, was easy and cheap. It took about one acre of sod to make an average-size home.



▼ THE SOD WALLS
and hay in the roof
made a cozy home
for field mice.
Snakes crawled
through the walls
looking for rodents.





▼ THIS SETTLER
(left) is looking at a tiny cabin. He made this to get around a law that required building a house on newly claimed land. The law said the house had to be at least 12 by 12, but didn't say whether it had to be 12 feet or 12 inches. Some people built cabins on wheels and rolled them from claim to claim.

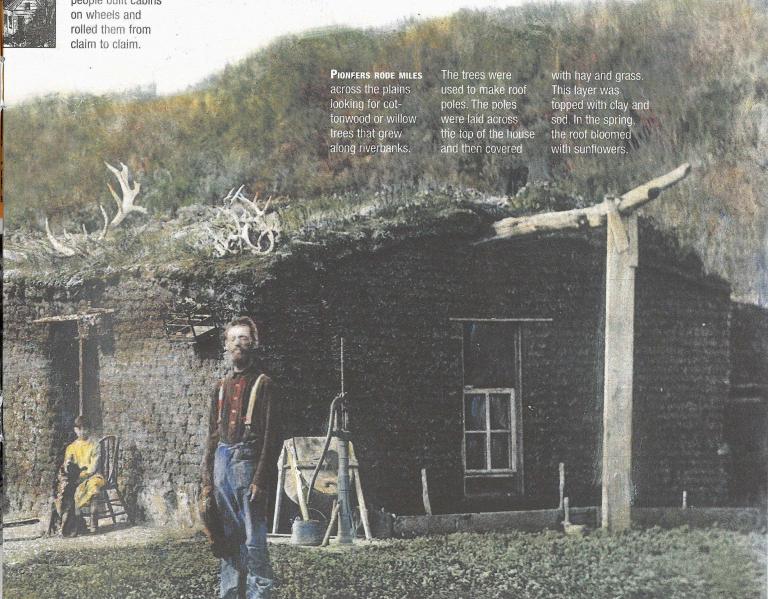
A THE FIRST HOUSE that many pioneers had was a dugout — a hole in the side of a grassy hill. The dirt roof could be dangerous. A cow might walk on it and fall through.



■ EARLY PIONEERS
made fires with
twigs, grass, and
corncobs. But mostly
they used buffalo
or cow chips (dried
droppings). This
Kansas woman (left)
has a wheelbarrow
filled with cow chips.

♥ Wisconsin-Born author Laura Ingalls Wilder grew up in the Midwest in the 1870s and 1880s. She brought the world of plains pioneers to life for generations of young readers in her nine Little House books.





Farming the Plains

It was backbreaking work, but the pioneers of the plains did it. They turned the grassy plains into fields of grain. Many of the farmers were from northern Europe. They came from cold-weather countries like

Sweden, Norway, Denmark, and Russia. These settlers shared in the grinding work of turning the rich but tough soil into farmland. High heat and summer droughts ruined promising corn crops. Subzero winter weather killed cows, pigs, and chickens. It also killed people.

THE WIND MADE a constant, low moaning sound as it blew across the plains. The sound almost drove people crazy. But sodbusters were smart and learned how to use the wind. European immigrants knew how to use windmills for power. Sodbusters built them to pump water from deep wells. They also

used them to grind grain. In western Nebraska and Colorado, farmers used windmills to

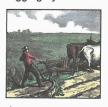
help water their fields. Without underground water, few crops



▼ In WESTERN Kansas and Nebraska, the ground gets less than 20 inches of rain a year. That's not enough to grow

most crops. To

find water, most pioneers had to dig wells as deep as 200 feet. And they did most of that digging by hand.



AN ORDINARY cast-iron plow would get caught in the matted roots of the sod or skip across its surface. By the 1860s. sodbusters were using a new steel plow invented by Vermont farm boy John Deere. It sliced right through the sod.

◆ OVER TIME, farmers learned which crops grew best in prairie soil. That's why they grew wheat, corn. alfalfa, oats, barley, and potatoes.



> CHILDREN DID farm work, just like the adults. Small children fed the chickens and picked wild nuts and berries. They also helped their mothers gather fuel from the plains. Older children helped with plowing and planting, and



pitched hay. They also hauled water from the well and did laundry and kitchen chores.

➤ WOMEN LOOKED after the children, fed chickens, gathered eggs, tended a vegetable garden, and milked cows. They also helped with plowing and hauling water and acted as the family doctor.



DURING THE winter, blizzards came quickly. Some sodbuster lost their way walking between the house and ti barn and froze to death.

> As grasses became drier, autumn brough the risk of prair fires. Lightning or sparks from campfire could send a wall of flame racing across the plain A pioneer's sod house usually didn't burn, but the fields turned to ashes.



The Perils of the Plains

"With a sinking feeling, I realized that I was entering a new kind of life, as rough and full of ups and downs as the road over which we traveled. Would I have the courage and forwarde to stick it out?"

-Katherine Kirk, bound for South Dakota*





DUST

summer months, long periods without rain turned soil to dust. High winds brought dust storms that turned the sky black.

▼ To PROTECT THEMselves from dust storms, settlers built temporary underground shelters.





TORNADOES

▼ THESE WHIRLING
winds and funnelshaped clouds
drove settlers to

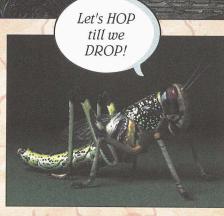
find shelter anywhere they could. They often didn't have much luck.



LOCUSTS:

warms of short-horned grass-hoppers, also called locusts, covered the plains. They chewed through fields of grain. They also chomped on

leather boots and harness straps. The only cure was to gather the infested grass and crops and burn them before the insects could do more harm.



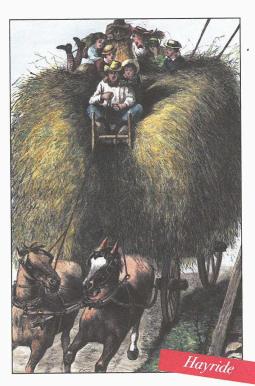
THERE CAN BE billions of grass-hoppers in a swarm. In some places on the plains, they piled up six inches deep. Their combined weight snapped the branches off cottonwood trees.

Time for Fun

Slick down your hair with butter. Polish your dancing shoes with spit and bear grease or soot from the stove. It's time to party! Even pioneers had to relax sometimes.

In the mountains and on the dry, windy plains, pioneers worked hard all day every day. Farm animals had to be fed and crops tended, even on weekends. Still, families found time for fun. In the summer, children climbed trees and went swimming in lakes and streams. Picnics were another

summer treat. At harvest time, children hitched rides on hay wagons. Dancing and card playing were year-round favorites.

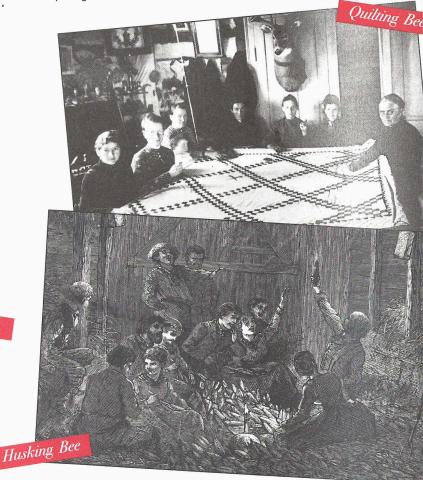


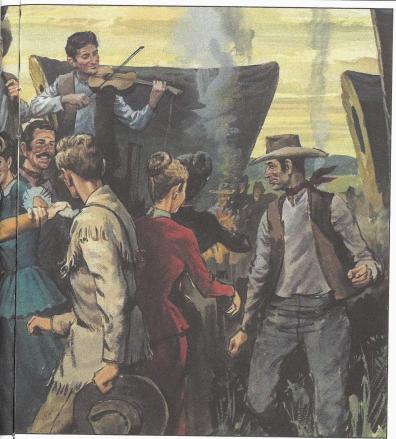
▲ No NEED FOR video games — a hayride is lots of fun!

➤ THESE COUPLES (right) are having a toe-tapping good time at a western hoedown. A dance could be held indoors or out. Almost every community had a fiddle player to provide music. Wherever pioneers gathered on the frontier, music and dance were a part of life.

W NEIGHBORS ON the plains got together to share chores, a type of gathering called a bee. A cornhusking contest was a husking bee. Women stitched cloth into blankets at quilting bees.







IT WASN'T LIKE going to the mall, but it sure beat staying home. A trip to town was a special treat for farm families. New towns usually had a general store, a hotel, and one or more saloons. Children could enjoy penny candy at the general store, while parents chatted with neighbors whom they didn't see very often.

AT BARN AND house raisings, also called building bees, men took

time off to run . races or hold wrestling matches.



A TOWN WAS JUST about ready to leave its pioneer past behind when it held its first Fourth of July celebration. Independence Day was a time

for people from all over to gather. Bigger towns had parades and speeches. Even the smallest town had a picnic and fireworks.

and new settlers were welcomed to the county. -Diary of a pioneer woman, around 1875 * * Pioneer Women: Voices from the Kansas Frontier by Joanna L. Stratton. Touchstone, Simon and Schuster, 1981.

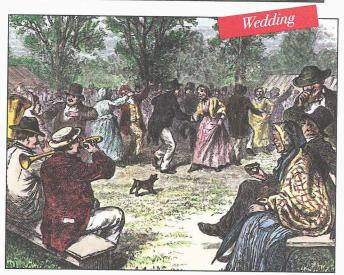
The Fourth of July celebrations were the meeting place of

where once a year old

friends met and new

friends were made

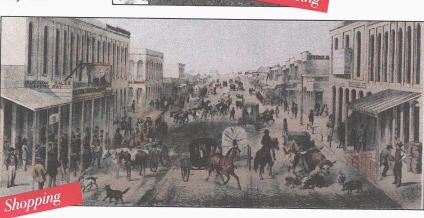
the whole county,



A FAMILY CELEbrations like weddings were a good way to bring people together. Younger guests enjoyed play-

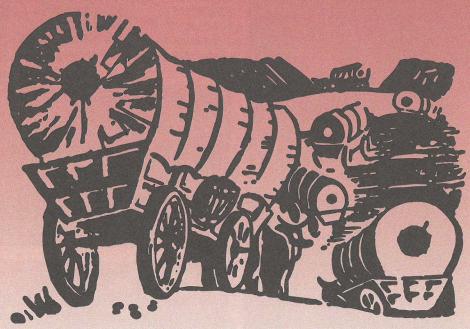
ing tricks on the couple. Friends might "kidnap" the bride or groom. They released the person in time for the ceremony.

▼ Neighbors helped each other bring in the harvest or set aside feed for cattle at a haying party.





Activities



WRITE A JOURNAL

Imagine you're traveling on the Oregon Trail. It is the biggest and most exciting experience of your life, and you want to remember as many details as you can. Write a journal about your experiences. Think about what you would want to remember about the trip. Describe important happenings. Tell about the people in your group. Explain the challenges. Include sketches if you can. You'll be happy to have something to look back on later to jog your memory.

PANEL PRESENTATION

Take part in a panel presentation in which pioneers and Native Americans offer their point of view about the wagon trains headed for Oregon and California. Work with a group of classmates. Decide whether your group will present the pioneer point of view or the point of view of Native Americans. Imagine being on a pioneer wagon train or in an Native Americans community watching the wagon train pass through. What is your reaction? What thoughts and ideas cross your mind? Organize your ideas into a few main points. Then share them in the panel discussion.

