Plants of the Redwood Forest

by Joanne Mattern

HOUGHTON MIFFLIN

Plants of the Redwood Forest



by Joanne Mattern



BOSTON

ILLUSTRATION CREDIT: Karen Minot, Steve McEntee

PHOTOGRAPHY CREDITS: Cover © Nick Fox/Shutterstock; tp © altrendo nature/Getty Images; 2, 8, 14 © Siede Preis/ Getty Images; 3 (b) © Nick Fox/Shutterstock; 3–14 (border) © Siede Preis/Getty Images; 5 © Don Mason/Corbis; 6 (t) © HMCo.; 6 (b), 7 (t) © Siede Preis/Getty Images; 7 (b) © altrendo nature/Getty Images; 10 © Norden Cheatham/ Photo Researchers, Inc.; 11 © topimages/Shutterstock; 12 © W. Cody/Corbis; 13 © Siede Preis/Getty Images.

Copyright © by Houghton Mifflin Company. All rights reserved.

No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying or recording, or by any information storage or retrieval system without the prior written permission of the copyright owner unless such copying is expressly permitted by federal copyright law. With the exception of nonprofit transcription into Braille, Houghton Mifflin is not authorized to grant permission for further uses of this work. Permission must be obtained from the individual copyright owner as identified herein. Address requests for permission to make copies of Houghton Mifflin material to School Permissions, Houghton Mifflin Company, 222 Berkeley Street, Boston, MA 02116.

Printed in China

ISBN-13: 978-0-547-02213-0 ISBN-10: 0-547-02213-1

1 2 3 4 5 6 7 8 9 RRD 15 14 13 12 11 10 09 08

Table of Contents

A Wet and Wonderful World	3
The Douglas Fir	5
The Mighty Oak	7
Berry Patch	9
Dangerous Plants 1	1
Funny Ferns 1	.2
An Important Connection1	4



A Wet and Wonderful World

Welcome to the redwood forest! Look around you. It is hard to miss the giant, towering redwood trees. However, the forest is thick and dense with many other trees and plants, too. You will be amazed at the number of different types of plants that grow in such a small area.



A redwood forest is home to a huge variety of plants.

Redwood forests are found in only a few places in North America, such as

od forests are

Northe

the forests get moisture from the rain. During the summer, it does not rain very much. However, the trees and plants collect moisture from the tog



There are several redwoo forests in california Man of them are preserved in national parks.

m

The Douglas Fir

The coast redwood may be the biggest tree in the forest, but it is not the only one. The Douglas fir is another large tree that lives in the redwood forest.

The Douglas fir is a type of tree called a conifer (KAHN-uh-fur). Conifers have seeds that grow inside cones. Many conifers also have needles instead of leaves that stay green all year.

The Douglas fir is the second tallest tree in a redwood forest.



III •• Drink Up! ••

from Do

000

resources

nimals ear

bark to eat

How about a cup of Douglas fir tea? Young needles from this tree can be boiled into a tea. The tea is very healthy and full of vitamin C. The roots of this tree also can be made into baskets.

Douglas firs providents nimals and people Bird a the tree's seeds Beau-quas

ople use the wood from

lumber to build houses. I

opular holiday trees!

The Mighty Oak

The California black oak is often found in the redwood forest. The crown, or top, of these oak trees is very large. Crowns provide shade and shelter for redwood seedlings that grow underneath them.

Groups of black oaks can be very crowded and dense. Usually, all the black oak trees in an area are the same age.



The California black oak is the most common oak found on the West Coast.

If Every spring, buds appear on the oak tree.
Each bud will open and a flower will appear in time, the flowers will produce seeds.
In time, the flowers will produce seeds.
In time, the east on a corn to develop on an oak tree. A tree has to be at least 30 years old before it will produce acorns.
In time, the acorns fall to the ground.
Many forest animals like to eat them, especial.

squirrels, who will forget to dig then new trees.



Berry Patch

Many smaller plants also grow in the redwood forest. You will find beautiful flowering plants like the Douglas iris. You may also find shrubs, or small bushes, that produce gooseberries, blackberries, and huckleberries.



The roots take in water and nutrients from the soil. The leaves use sunlight to make food.



The huckleberry is a shirt stay green all year round

Like other shrubs the huck above lives under the redwood trees. Deer, eth. chipman

bears, and birds all h

berries can be eaten fresh or dried. They

ams. Huckleberries also can be n

to a healthy tea.

Dangerous Plants

Not all shrubs in the forest are helpful. Some berries are not good to eat and can make you sick. Other plants can hurt your skin. Poison oak may make you very itchy if you touch it. Stinging nettle is a plant with leaves that are covered with rough hairs. These hairs will sting and scratch your skin.



The Western azalea has pretty flowers, but don't eat it! All parts of the plant are poisonous.

Funny Ferms

Ferns are some of the most interesting plants in the redwood forest. These plants do not grow from seeds, and they do not have flowers. Instead, they use spores. Spores grow

or

bottom of the leaves. They blow of ished of by animals. If they land it pot-they will grow into a fern.



erns grow where it is wet. They are common in edwood forests. Ferns need a lot of moisture to grow. That's why a redwood forest is the perfect home for them. Some ferns grow on the ground. Others grow on tree branches.

When a redwood sheds its needles, some of them fall on the lower branches. In time, they build up into a shallow layer of soil. A fern's spores may grow in that soil.

Leather ferns are a type of epiphyte (EP-uhfite) that live in the redwood forest. Epiphytes are not independent. They grow on another plant and need the other plant to survive.



An Important Connection

People, animals, and plants are all connected to each other—just look at the redwood forest. Redwoods and oak trees create shelter so other plants can grow. These plants are then eaten by animals and people.

As you can see, the redwood forest is filled with some incredible plant life besides the redwoods. Each plant has its own special role.

Plants That Grow in a Redwood Forest				
TREES	FLOWERS	SHRUBS	FERNS	
Coast Redwood	Calypso Orchid	Evergreen Huckleberry	Sword Fern	
Douglas Fir	Trillium	Manzanita	Licorice Fern	
California Bay	Redwood Violet	California Blackberry	Bracken	
Bigleaf Maple	Douglas Iris	Poison Oak		
Hazelnut				
Black Oak				

Π

Responding

TARGET SKILL Text and Graphic Features

What text and graphic features are used in *Plants of the Redwood Forest*? Think about maps, photographs, and charts that help you better understand. Copy and complete the chart below.

Text or Graphic Feature Photo, p. 3	Text or Graphic Feature Map of California, p. 4	Text or Graphic Feature ?
Purpose Shows what plants in a redwood forest look like.	Purpose Shows where redwood forests are located.	Purpose ?



Text to Text Write an informational paragraph about a topic in nature that you have read about in another book. Include a strong supporting sentence and important details.

TARGET VOCABULARY

civilized continent customs dense

evaporate

independent moisture opportunities resources shallow

TARGET SKILL Text and Graphic Features

Examine how text and pictures work together.

TARGET STRATEGY Monitor/Clarify Notice what is confusing as you read. Find ways to understand it.

GENRE Informational Text gives facts and examples about a topic.

Level: 0

DRA: 38

Genre: Informational Text

Strategy: Monitor/Clarify

Skill: Text and Graphic Features

Word Count: 913



HOUGHTON MIFFLIN Online Leveled Books







HOUGHTON MIFFLIN

1032071