WE NEED YOUR HELP!

We are glad to provide these materials for free. In order for us to continue receiving funding for new materials, we need to collect information on how they are used.

Thank you for taking the time to answer the following one-minute survey.

There are three ways to complete the survey:

Scan this code with your smartphone camera



Type the following link into your web

browser:

https://plantheroes.org/educator-survey

Email your answers to: plantheroes@publicgardens.org



- 1) Job title
- 2) Name of organization you belong to
- 3) What kind of educator are you?

Teacher

Summer camp counselor

Home schooler

Public garden educator

Informal educator

Other (please describe)

4) What grade level do you teach?

Elementary (K-5)

Middle School (6-8)

High School (9-12)

Other (please describe)

5) Specify what subject area you teach:

Science

Math

Language Arts

Social Studies

Other (please describe)

6) How many students do you teach in a school year?



Rapid 'Ōhi'a Death

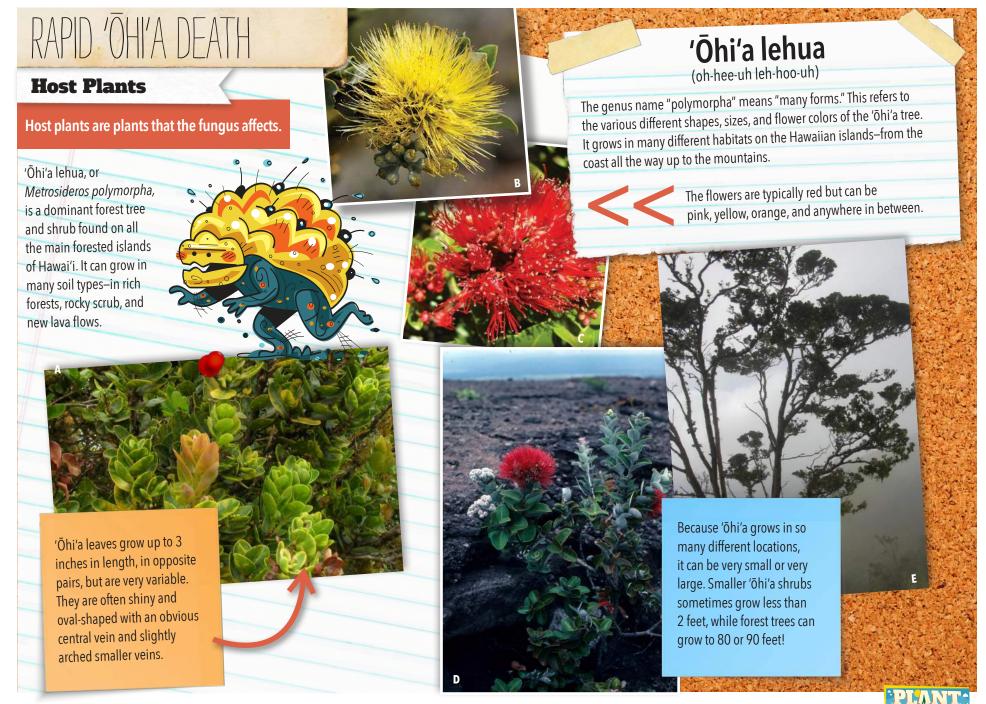
Rapid 'ōhi'a death is a fungal disease that is taking Hawai'i by storm. It attacks the 'ohi'a tree—an important species in Hawaiian forests and culture.



AMERICAN PUBLIC GARDENS ASSOCIATION



Photo: Forest and Kim Starr, Starr Environmental, Bugwood.org

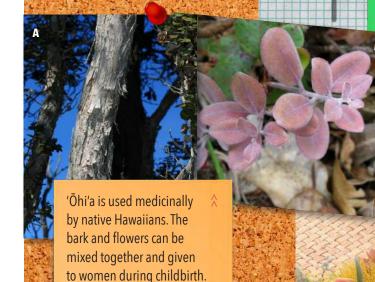








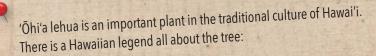
Cultural Connections



A traditional Hawaiian >> building or house is called a "hale." 'Ōhi'a was sometimes used for the beams and poles that support the hale-if they were straight enough!

Until very recently, 'ōhi'a lehua flowers were used in leis and as part of spreading rapid 'ōhi'a death.

traditional hula ceremonies. The Hawaiian people have stopped using them in some events because of the risk of



Pele, the goddess of fire and creator of the Hawaiian Islands, once fell in love with a warrior named 'Ōhi'a, but he had already pledged his love to a woman named Lehua. Pele became so angry that she turned 'Ōhi'a into a crooked and

stunted tree. The other Gods felt sorry for Lehua, so they turned her into a beautiful red flower. They placed the Lehua flower on the 'Ōhi'a tree, so the two would be together forever.

The legend says that when a flower is picked from the 'ōhi'a tree, it will rain-the tears of 'Ōhi'a and Lehua separated again.



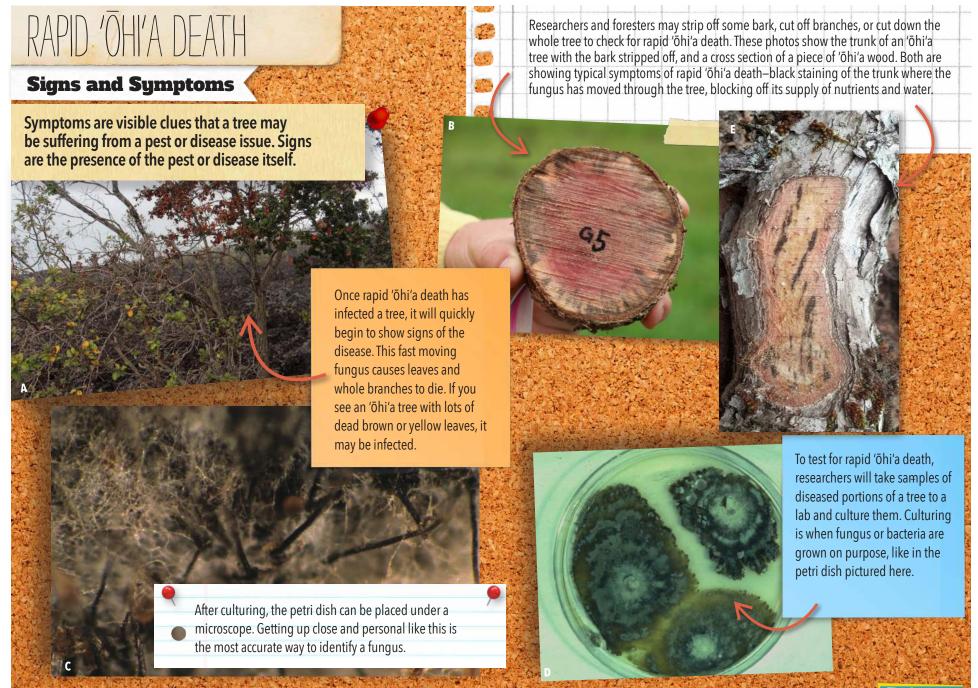
'Ōhi'a wood was used in boat building. Traditional canoes might have 'ōhi'a seats and gunwhales-the rails that run up the sides of the canoe.

The leaves are also used to

stimulate appetite and to

treat sore throats.







RAPID 'OHI'A DEATH

Control

Moving plants around is a big problem! The Animal and Plant Health Inspection Service (part of the US Department of Agriculture) is on the lookout for invasive plants and pests like rapid 'ōhi'a death.



Slowing or stopping the spread of rapid 'ōhi'a death is the main control strategy now. The USDA has quarantined all of Hawai'i Island-nobody may take any of the following off the island:

X'Ōhi'a plants

X'Ōhi'a plant parts, including flowers, leaves, seeds, stems, twigs, cuttings, untreated wood, logs, mulch, green waste, or any insect frass

X Soil



The University of Hawai'i and the U.S. Forest Service have set up these boot brush stations. Rapid 'ōhi'a death can move around in the soil stuck on the bottom of your shoes! Anyone who has been in an area with rapid 'ōhi'a death should make sure to remove as much mud and soil as possible. This includes cleaning soil from car and bicycle tires.

> Any tools used to cut or prune 'ōhi'a should also be cleaned. This can be done with 70% rubbing alcohol.

Island, or between islands. This is a good practice to keep in general. Many invasive insects spread across long distances by people moving firewood.







Join our team of Plant Heroes and learn about trees, forests, and the natural world around you!

PLANTHEROES.ORG

You can be a Plant Hero!

Are you curious about plants and animals? Do you like asking questions about nature? Do you enjoy being outdoors and having fun, climbing trees, balancing on logs, or finding a new butterfly or beetle? If so, you are already on your way to becoming a Plant Hero! We invite you to join forces with Nate, Laura, Aponi, and Frankie to protect the plants and ecosystems we all love.

How can you become a Plant Hero?

Join our team and go on a journey with Nate, Aponi, Laura, and Frankie. As a Plant Hero, you will learn to notice when plants are in trouble. You will also find out ways you can act quickly to help find solutions in your own neighborhood. Follow their adventures and learn how they help plants and ecosystems stay healthy.

On the Plant Heroes website, you will find materials to help you learn about plants, forest health, and ecosystem balance. The more you know, the more you can help protect plants and ecosystems in your own yard, neighborhood, and community!

Plant Heroes strives to spark curiosity about nature and science in all children.

Our program provides hands-on, nature-based learning materials for educators to engage children in topics of plant health, ecosystem balance, and forest health. We also spotlight the amazing work our public gardens do in protecting the plants and ecosystems we all depend on through our website and printed materials. Visit **plantheroes.org** today to learn more!

Plant Heroes is brought to you by the American Public Gardens Association, founded in 1940. Over the last eight decades, the Association has supported the work of public gardens in North America and beyond. Our mission is to champion and advance public gardens as leaders, advocates, and innovators in the conservation and appreciation of plants. Our vision is "A world where public gardens are indispensable" as they provide botanic, conservation, community, education, and economic resources to their community.

The Association is committed to increasing the knowledge of public garden professionals throughout North America through information sharing, professional development, networking, public awareness, and research, so that they have the tools to effectively serve visitors and members.





