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Gardening Trees

## Tree Care: Common Tree Diseases and What to Do About Them Learn to recognize trees that may be affected by diseases or pests so you can quickly

take action

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Comment 8 Like 5 We live in an age of rapid progression when it comes to diseases and pests that can plague our lovely trees. Over the past few decades, the United States has lost many

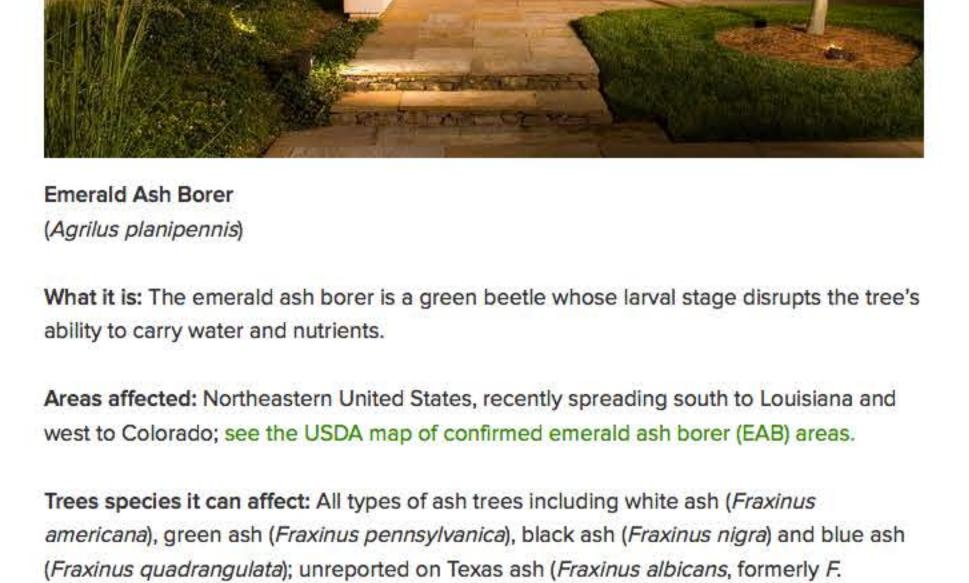
larger forests and habitats beyond. The good news is that foresters and arborists are actively researching tree pests and diseases and providing assistance and resources for homeowners in an effort to quell tree decline. There are several very common diseases affecting trees right now, and it's important to recognize their signs so that you can take quick action and help prevent their spreading. The suggestions listed here are based on a chemical-free regimen and a holistic landscape approach. You may see suggestions from others for fungicide or pesticide applications, but keep in mind that a chemical solution may not save a diseased tree in

canopy trees due to fast-spreading diseases and pests, such as Dutch elm disease and

the emerald ash borer. Our ecosystems are all connected, and the trees in your yard can

become infected and adversely impact street trees, nearby park trees and even the

the long term, although it may be helpful in specific instances. Choosing to lose a tree is very difficult — especially an old, established one — but that's a decision you may have to make to protect other nearby trees from becoming infected.



How to spot it: Signs of the disease include prematurely yellowing leaves in the summer

texensis)

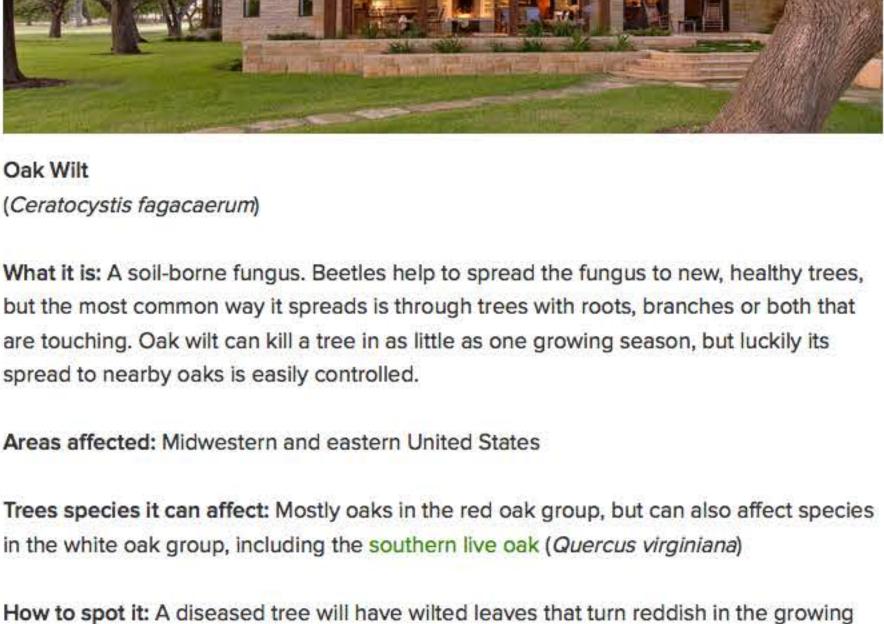
followed by dead branches. An arborist will likely confirm the presence of the disease by looking for signs that the beetle has entered the tree bark and burrowed its tunnels beneath the bark.

deciduous shade trees with fall color. How to prevent it: Fungicidal injections are on the market to help avoid elm tree

How to treat it: Diseased trees must be removed and replaced. Suitable replacements

for ash trees include maples (Acer spp)., sycamores (Platanus spp.) and nut trees in the

Carya genus. Hybrid disease-resistant cultivars of these trees are available and are great



How to treat it: There is no cure, only management of the disease's effects and

How to prevent it: Proper pruning of oaks can reduce the likelihood of its spreading from

trees with touching canopies. See the Oak Wilt Information Partnership's pruning guidelines to prevent the spread of oak wilt.

prevention of its spread.

What it is: Various types of

Shown: Healthy, mature southern live oaks in an Austin, Texas, yard

season, then quickly die and fall off the tree.

outbreak is an epidemic in the Rocky Mountain states. Areas affected: Western United

not show signs of infection until the beetles have already moved on to a new tree. How to treat it: Early detection is critical to prevent the beetles from spreading. Pheromone baiting, in which pheromones are used to lure the beetles, by a professional may trap the beetles in specific localized areas of forest tracts. Infested trees should be removed. How to prevent it: Drought conditions and stress can make trees more susceptible to infestation. Providing enough water and building healthy soil are the best organic prevention methods.

rot as the soil-borne fungus attacks the root system.

Area affected: Southwestern United States

spp.), sycamore (*Platanus* spp.) and others

sign of wilted leaves in the warm season.

(Parkisonia spp.) and hackberry (Celtis spp.).

Shown: An allée of healthy palo verde trees in Los Angeles

soil doesn't."

Cotton Root Rot, Texas Root Rot (Phymatotrichopsis omnivora)

Trees species it can affect: Ash (Fraxinus spp.), cottonwood (Populus spp.), elm (Ulmus

quickly by dead leaves and branches. "It's important to note that the fungus that causes

arborist Noelle Johnson says. "Your neighbor may have the fungus present while your

How to treat it: Johnson recommends contacting an arborist for consultation at the first

How to prevent it: Plant resistant species such as mesquite (Prosopis spp.), palo verde

How to spot it: Signs of cotton root rot include the onset of wilted leaves followed

cotton root rot is not present in all soil. Rather, it occurs in small pockets," certified

then the infected areas will die and the beetle will then help spread the disease to the rest of the tree. How to treat it: If the disease is detected early, the tree can be saved by aggressive pruning of infected limbs. How to prevent it: Plant hybrid elm trees that have been created for disease resistance. Shown: Two mature healthy American elm trees showing their typical arching form

Area affected: Primarily the midwestern United States

Trees species it can affect:

American elm (Ulmus americana)

**Dutch Elm Disease** 

(Ophiostoma spp.)

What it is: Multiple species of

once graced neighborhood

soil-borne fungi. Native elm trees

streets throughout the Midwest,

creating a cathedral-like ceiling

thousands of trees have been

but is exacerbated by the elm

multistriatus) as it moves within

the tree and carries the fungus

bark beetle (Scolytus

with it.

of arching branches. Sadly, many

lost to Dutch elm disease (DED).

The disease originates in the soil

States Trees species it can affect: Sycamore (*Platanus* spp.), ash (Fraxinus spp.), oak (Quercus spp.), privet (Ligustrum spp.) and dogwood (Cornus spp.) are most commonly affected. How to spot it: Signs of

anthracnose include dead spots

What it is: Various species of

related fungi on leaves and twigs

Areas affected: Eastern United

Anthracnose

of shade trees

Schedule a consultation with a local arborist. The arborist will visit your landscape, identify any disease present and give you a solid plan for remedying or replacing your

and diseases of trees, and can evaluate your trees and recommend a course of action.

When in doubt, call a professional. If you need help assessing the health of your trees,

Arboriculture (ISA). An ISA-certified arborist is like a tree doctor, with training in the health

you should consult an arborist who is certified by the International Society of

trees.

infection, but they are not a sure bet. Shown: American sycamore (*Platanus occidentalis*) trees lining a path in a Charlotte, North Carolina, garden; these trees are native from Nebraska south to Texas and all parts east

will sport red needles and will

Mountain Pine Beetle

(Dendroctonus ponderosae)

microbes are spread by the

mountain pine beetle. The

States, especially the Rocky

Trees species it can affect:

Species of western pines,

including Scots pine (Pinus

ponderosa), jack pine (Pinus

banksiana) and whitebark pine

How to spot it: A diseased tree

sylvestris), ponderosa pine (Pinus

Mountain areas

(Pinus albicaulis)

What it is: A soil-borne fungus. Cotton root rot, as its name implies, causes trees' roots to

How to spot it: Often, the disease is localized to specific branches on the tree. The leaves will first wilt, because the fungus does not allow water to reach the foliage, and

How to treat it: Early detection is key, because you can remove and burn infected foliage

Shown: Kousa dogwood (Cornus kousa) is a well-adapted and noninvasive garden tree

that's more resistant to anthracnose than many native dogwoods. If you prefer to use a

cultivated native, consider 'Appalachian Blush' flowering dogwood (Cornus florida

and twigs. Trees that are overtaken by anthracnose might need to be removed.

How to prevent it: Create good air circulation around susceptible trees, since

anthracnose thrives in damp conditions.

'Appalachian Blush'), which has shown resistance.

on leaves, distorted and irregular leaf growth, and defoliation of leaves.

To find a certified arborist, visit the International Society of Arboriculture's website, search for certified arborists on Houzz or consult a local tree nursery. You can also follow these guidelines for keeping your trees healthy overall, and one of the best things you can do is have an organic, ecologically minded landscape program that builds healthy soil and uses water judiciously. Additionally, a planting palette of mostly native and hybridized plants that are disease-resistant will be the most resilient.