



Common Plant Diseases



By Angelo Randaci (https://earthsally.com/angelo), Earth's Ally Horticulturist

Angelo's passion for plants has led him to explore many areas of horticulture including research, grounds management, technical training, design and nursery management.

How to Identify and Treat Plant Disease

Protect your plants from debilitating diseases by learning to recognize the symptoms and practice prevention. A wholistic approach includes first identifying the pathogen. Then decide on a treatment method that is safe, effective and responsible. Read on and bookmark this page for plant disease identification.

Black Spot

Black spot is one of the most common diseases found on roses, but it can also occur on other ornamental and garden plants. This fungal disease causes black, round spots that form on the upper sides of leaves. Lower leaves are usually infected first. Severe infestations cause infected leaves to turn yellow and fall off the plant. Black spot is a problem during extended periods of wet weather or when leaves are wet for 6 hours or more. Black spot spores overwinter in the fallen leaves.



Tips for Controlling Black Spots on Leaves

- Plant in well-draining soil. Keep your plants healthy by providing regular feedings of organic fertilizer.
 This will help prevent fungal disease in plants.
- The fungus spores overwinter in plant debris. Remove dead leaves and infected canes from around the plants and disguard in the trash. Do not add to the compost pile.

EARTH Significant of the bottleEarth Significant after every use. Ethanol or isopropyl alcohol can be used straight out of the bottle.



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Because water (not wind) spreads the fungal spores, avoid applying water on the leaves. When you water, apply water directly to the roots. Use a soaker hose to water plants prone to the disease.

Other Leaf Spots

Fungal leaf spot disease can be found both indoors on houseplants, and outdoors in the landscape. This occurs during warm, wet conditions. As the disease progresses, the fungal spots grow large enough to touch each other. At this point the leaf surface appears more like blotches than spots. Leaf spot may result in defoliation of a plant. Follow the same tips as the ones to control black spot.



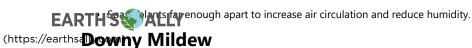
Powdery Mildew

Powdery mildew is a fungal disease that affects many of our landscape plants, flowers, vegetables and fruits. Powdery mildew is an easy one to identify. Infected plants will display a white powdery substance that is most visible on upper leaf surfaces, but it can appear anywhere on the plant including stems, flower buds, and even the fruit of the plant. This fungus thrives during low soil moisture conditions combined with high humidity levels on the upper parts of the plant surface. It tends to affect plants kept in shady areas more than those in direct sun.



Tips for Controlling Powdery Mildew

- Inspect plants that you buy from a greenhouse before purchasing for mildew (and insects).
- Wiping off the leaves is not an effective powdery mildew treatment as it will return within days of cleaning.
- Because spores overwinter in debris all infected debris should be removed. Trim and remove infected plant parts.
- Do not till the debris into the soil or use in the compost pile.





Because downy mildews differ from powdery mildews, it is important to understand the differences between the two. Powdery mildews are true fungal pathogens that display a white powdery substance on the upper leaves. Downy mildews, on the other hand, are more related to algae and produce grayish fuzzy looking spores on the lower surfaces of leaves. To identify downy mildew, look for pale green or yellow spots on the upper surfaces of older leaves. On the lower surfaces, the fungus will display a white to grayish, cotton-like downy substance. Downy mildew occurs during cool, moist weather such as in early spring or late fall. Spore production is favored by temperatures below 65°F and with a high relative humidity.



Tips for Downy Mildew Treatment

- Downy mildew needs water to survive and spread. It there is no water on your leaves, the disease cannot spread. Keep water off leaves as much as possible.
- Because the disease overwinters on dead plant debris, be sure to clean around your plants in the fall to help prevent the disease in the following spring.

*Some of the fungicides used to control powdery mildew will not control downy mildew. Earth's Ally's fungicide will control both powdery and downy mildew.

Blight

Plant blight is a common disease. Remember the potato famine in the 1840's? As a result of the blight, one million people died. But other than potatoes, blight also affects other plants, particularly tomatoes. Blight is a fungal disease that spreads through spores that are windborne. For this reason, spores can cover large areas and rapidly spread the infection. Blight can only spread under warm humid conditions, especially with two consecutive days of temps above 50°F, and humidity above 90% for eleven hours or more. No cure exists. Prevention is the only option.





(https://earthsallycomg)owing potatoes, grow early varieties because blight occurs during mid-summer and you can harvest your crop before the blight.



- Plant resistant varieties: Sarpo Mira and Sarpo Axona are two varieties that show good resistance.
 Practice good garden hygiene.
- Destroy any blight-infected plant parts. Keep the area clean of fallen debris from your diseased plants and discard in the trash. Do not add to your compost pile.

Canker

Canker is often identified by an open wound that has been infected by fungal or bacterial pathogens. Some cankers are not serious while others can be lethal. Canker occurs primarily on woody landscape plants. Symptoms may include sunken, swollen, cracked or dead areas found on stems, limbs or trunk. Cankers can girdle branches, and kill foliage. Cankers are most common on stressed plants that have been weakened by cold, insects, drought conditions, nutritional imbalances or root rot. Rodents can also spread the pathogens.



Tips for Controlling Canker in Plants

- Remove diseased parts in dry weather.
- Grow resistant varieties whenever possible.
- Avoid overwatering and overcrowding; avoid mechanical wounds such as damage from lawn mowers.
- Wrap young, newly planted trees to prevent sunscald. Sunscald creates dead patches that form on trunk and limbs of young trees if the trunks have been shaded, then transplanted to sunny areas.
- Keep plants healthy by planting in healthy soils and maintaining nutritional requirements.

Tips to Control Plant Fungus and Diseases

First and foremost, build a well-drained soil with plenty of organic matter prior to planting. Raise the beds if necessary and fill the beds with a commercial potting mix that drains well. Soils that hold too much water can cause rotting. Avoid getting water on leaves. Hand water at the root zone or use a soaker hose. Fertilize as necessary to keep plants in peak condition.

- Choose resistant varieties whenever possible.
- Prune or stake plants, do not crowd them, and remove tall weeds to improve air circulation.
- Plants in containers can be placed away from areas that do not receive air circulation.
- Remove any infected debris to keep the disease from spreading. Remove and place in the trash (not in the compost bin) severely infected plants.
- Water during early morning hours so the plants can dry out and avoid getting water on the leaves.
 Water later in the day if downy mildew is present as it favors morning moisture. Either way, avoid getting water on the leaves. A soaker hose will keep water at the root zone and help keep the spores from spreading.
- Inspect all plants before purchasing from your local greenhouse for disease symptoms and pests.
- Disinfect pruners after cutting diseased plant parts.
- Purchase a hand lens. A 10x hand lens is a great way to detect fungus and insect problems. Besides that, a hand lens allows you to see thing in nature difficult to see with the naked eye.

EARTH Afthewant protected by using a fungicide for plants. Earth-friendly fungicide spray like plant

Disease control (https://earthsally.com/product-category/disease-control)is an OMRI Listed ®

(https://earthsally.com)

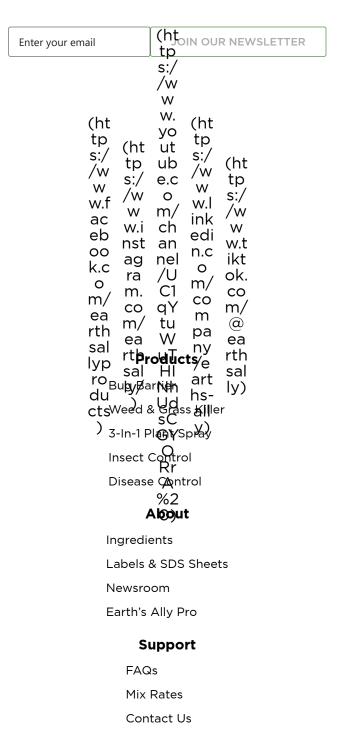
contact fungicide and bactericide for use on houseplants and in organic gardens. Formulated with foodgrade citric acid, Earth's Ally is highly effective at treating and preventing the common plant diseases
outlined in this article.



These steps will build a healthy immune system and help avoid disease (and insect) problems. Diseases and pests tend to attack weak, stressed plants. Think of your immune system. The better it is, the better it will fight disease.

We'd love to hear how Earth's Ally is helping you grow healthy plants. Share your experience with the Disease Control formula and stay connected with the #EarthsAlly community on Facebook (https://www.facebook.com/earths.ally.products/?ref=py_c), Instagram (https://www.instagram.com/earthsally/) and Twitter (https://twitter.com/earths_ally) for access to our latest blog posts, giveaways and exclusive promotions.

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