

Cedar-Apple Rust

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What is cedar-apple rust? Cedar-apple rust is the name of a group of closely related diseases caused by fungi that infect both junipers and woody rosaceous plants such as apple, crabapple, hawthorn and quince.



Circular, yellow-orange diseased areas typical of cedar-apple rust on apple.

What does cedar-apple rust look like?

On junipers, the cedar-apple rust fungus causes formation of irregularly-shaped brown galls (roughly 1/2 to two inches in diameter). During moist periods in spring, these galls produce a distinctive orange, gelatinous slime. Symptoms on rosaceous hosts appear in late May as circular, yellow-orange areas on leaves. The undersurfaces of these diseased areas often have a fringed appearance.

Where does cedar-apple rust come from?

Several fungi in the genus *Gymnosporangium* cause cedar-apple rust. These fungi overwinter as galls on junipers.

How do I save a tree or shrub with cedar-apple rust?

Junipers can easily be treated for cedar-apple rust by pruning branches about four to six inches below the galls. Clean pruning shears between cuts by dipping them for at least 30 seconds in a 10% bleach solution or alcohol (spray disinfectants that contain at least

70% alcohol can also be used). This will prevent movement of the fungus from branch to branch, or from plant to plant during pruning. To prevent future infections, you can apply fungicides containing triadimefon or ferbam every seven to 21 days from early July through August. You can control cedar-apple rust on rosaceous hosts using fungicides containing chlorothalonil, ferbam, dithiocarbamates, mancozeb, metiram, sulfur, thiram, triadimefon, triforine, or zineb. Apply treatments when flower buds first show color, when half of the flowers are open, at petal-fall, seven to 10 days after petal fall and again 10 to 14 days later. Be sure to read and follow all label instructions of the fungicide that you select to insure that you use the fungicide in the safest and most effective manner possible.

How do I avoid problems with cedar-apple rust in the future? The best way to avoid cedar-apple rust is to plant trees and shrubs that are resistant to the disease. Check at your local nursery for resistant varieties of juniper, apple, crabapple, hawthorn, and quince that are available in your area and that will satisfy your landscaping needs.

For more information on cedar-apple rust: See UW-Extension Bulletins A2598 and A8KS711 or contact your county Extension agent.

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