## IN YOUR GARDEN - CEDAR RUSTS

Gelatinous, bright orange or yellow finger-like growths appearing in spring are usually the first indication that a Juniper is infected with one of the cedar rusts.

These interesting structures are the fruiting bodies of a fungus which alternately affects Juniper and another host.

The alternate stage of cedar-apple rust affects the leaves of apple or crabapple. Cedar-Hawthorn rust affects leaves of hawthorn. On these plants the disease appears as yellow or orange spots on the upper side of the leaves, with tubelike appendages on the lower side.

The alternate stage of Cedar-quince rust affects the developing fruit of quince, apple, hawthorn, mountain ash, pear, shadblow and Japanese quince. It produces cream to orange colored tubelike structures from deformed fruits.

The spores from the alternate host are produced in mid-summer and infect the Juniper at that time. These spores cannot infect the pomaceous host. Spores from cedar cannot infect cedar.

Control of these diseases can be achieved by keeping alternate hosts widely separated so that spores are unable to find a suitable germination site. A mile or more is generally considered sufficient. If this is not feasible, spraying with a fungicide will reduce the severity of the problem.

In spring when spores are being produced by galls on Juniper, spray the pomaceous host with ferbam or thiram to protect leaves.

In July and August when spores are produced on leaves or fruits of the alternate host, spray the Juniper with ferbam or thiram.

Use either of these materials at the rate of four teaspoons in a gallon of water and thoroughly cover the foliage of the plants.

Picking the galls of Junipers as they develop in fall,

will prevent spore production in spring.

There is some indication that spraying the galls as they sporulate with Acti-dione will reduce infection on the alternate host.

Wherever possible avoid planting susceptible Juniper varieties.

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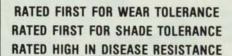
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