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Mistletoe Infestations in Trees

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Mistletoe prunings can be holiday decorations.

SUMMARY

Despite the cultural associations, mistletoe is a parasitic plant that can weaken or even kill trees. Pruning out infected branches is the most effective control. Harvesting the top growth for holiday decorations will slow its progress but not eliminate the problem.

Q: I have a lot of mistletoe in my street tree which is some sort of Ash I think. Is it a problem and if so how do I get rid of it?

A: Broadleaf mistletoe is an evergreen parasitic plant that grows on a number of landscape trees in California and can be readily observed on deciduous trees once the leaves have fallen. Modesto ash is especially susceptible to mistletoe infestations. As a parasite it absorbs both water and mineral nutrients from its host trees. Healthy trees can tolerate a few branch infections, but individual branches may be weakened or sometimes killed. Heavily infested trees may be reduced in vigor, stunted, or even killed, especially if they are stressed by other problems such as drought or disease.

The Mistletoe Lifecycle:

Mistletoe are either female (produce berries) or male (produce only pollen). The berries of the female are small, sticky, and whitish. Birds feed on and digest the pulp of the berries and excrete the living seeds which stick to any tree branch on which they land. After the seed germinates, it grows through the bark and into the tree's water-conducting tissues where rootlike structures called haustoria develop. These haustoria gradually extend up and down within the branch as the mistletoe grows, and for that reason if you simply remove the visible portion of the mistletoe it will often resprout.

Controlling Mistletoe:

The most effective way to control mistletoe and prevent its spread is to prune out infected tree branches.

Remove infected branches at their point of origin on the main trunk or back to a large lateral branch and cut at least one foot below the point of mistletoe attachment. Mistletoe infecting the trunk or a main branch where it cannot be pruned may be controlled by cutting off the mistletoe flush with the limb or trunk. You then





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must wrap the area with a few layers of black polyethylene to exclude light. Use twine or tape to secure the plastic to the limb, but do not wrap it too tightly or the branch may be damaged. Broadleaf mistletoe requires light and will die within a couple of years without it. It may be necessary to repeat this treatment.

Harvesting for the Holidays:

Simply cutting the mistletoe out of an infested tree each winter, even without wrapping, is better than doing nothing at all. Even though the parasite will grow back, spread is reduced because

broadleaf mistletoe must be several years old before it can bloom and produce seed.

Time your pruning right and you will have plenty of mistletoe for the holidays.

For More Information:

For more information on mistletoe and its management, the University of California has a free publication – *Mistletoe* – located at: http://ipm.ucdavis.edu/PDF/PESTNOTES/pnmistletoe.pdf.



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