Whiteflies are small, 1/16 inch long, white, winged insects that suck sap from leaves of various plants including house plants, garden flowers, vegetables and weeds. The leaves of ingested plants may turn yellow, be twisted or stunted, wither and drop prematurely. Leaves also may be sticky with honeydew, a sugary solution excreted by the whiteflies. Sometimes a black fungus called sooty mold develops on the honeydew, and adds to the plant's problem by blocking out light and interfering with photosynthesis.

Whiteflies begin life as minute, virtually invisible eggs arranged in a semicircle on the underside of the leaves. These hatch into the crawler stage of the insect. Once the active crawlers settle down to feed they molt and become nymphs. Nymphs are stationary, light green, flat oval and with a fringe of short, white, waxy filaments radiating from the border of the body. Pupae develop from the nymphs and are similar in appearance, but have a few waxy filaments on their back. Adults emerge from the pupae, and in about four days begin laying eggs. All stages of development may occur at the same time on the plant. When an infested plant is shaken or disturbed, the adults will flutter from the plant but quickly resettle. The entire life cycle takes about a month.

Malathion is the most readily available insecticide for whitefly control, but rotenone and nicotine sulfate may also be used. Enstar, Krack and neem are insect growth regulators (IGR) that prevent whiteflies from molting correctly. Refer to the product label for permissibility of use on crops and directions for preparing spray solutions. For control of whiteflies on house plants, refer to ENFACT-406, "HOUSE PLANT INSECT CONTROL".

Common host plants include: Ageratum, Aster, Begonia, Calendula, Cantaloupe, Chrysanthemum, Cineraria, Coleus, Cucumber, Eggplant, Fern, Fuschsia, Gardenia, Geranium, Gourds, Hibiscus, Lantana, Lettuce, Lupine, Mallow, Peas, Pepper, Petunia, Poinsettia, Potato, Primrose, Sage, Squash, and Tomato.

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