



FUNGUS GNATS

Host Plants and Description

Fungus gnats are pests of greenhouse transplants and potted plants, particularly seedlings and cuttings. Adults are very small, slender flies, measuring only 1/8 to 1/10 inch in length. They are dark gray or black in color, and have very long legs. Larvae are white, threadlike maggots, 1/8 to 1/4 inch long with black heads. Larvae live in the soil, where they feed on peat moss and other organic matter, as well as on plant roots.

Plant Symptoms / Damage

Fungus gnats are rarely a problem on established garden plants, but larvae can cause enough damage to the roots of cuttings and seedlings to stop growth. Plants lack vigor and leaves may yellow without any visible damage to the top growth. Small feeding roots and root hairs might be eaten off, and the larvae can frequently be seen tunneling through the soil around the plant. Look for adults running over the soil or flying between plants.

Control

The best control is to allow the soil to dry out as much as possible between watering. Remove debris around the plants to eliminate shelter for the insects, and suspend yellow sticky traps, bought or made with yellow boards and a sticky product such as Tanglefoot, above the plants to catch adult gnats as they fly.

occurs because the normal flow of water and nutrients is disrupted by the gall. The bacterium enters the plant through a wound. Initially, the gall is white or tan, rounded and soft; eventually it turns dark brown and develops a corky exterior and a woody interior. Crown gall can be distinguished from an insect gall by cutting it open. The interior of crown gall is a solid mass, while an insect gall will be separated into compartments.

Many woody plants are susceptible to this disease. (See a partial list below.) In general, evergreens are resistant to it, as are annuals and perennials.

Crown gall is difficult to control. Try to prevent it by avoiding unnecessary injuries. Keep plants healthy with regular watering and fertilizing. Pruning the gall out is counterproductive, as it only increases the number of wounds, allowing more of the soil-borne bacterium to enter the plant. Badly infected plants should be removed, destroyed and replaced with resistant varieties. (A list follows.)

Plants Susceptible to Crown Gall

Apple
Birch
Cherry
Crabapple
Dogwood
Elm
Euonymus
Grape
Honeysuckle
Lilac
Peach
Plum
Raspberry
Rose
Walnut
Willow

Plants Resistant to Crown Gall

Bald Cypress
Barberry
Beech
Deutzia
Boxwood
Ginkgo
Golden-rain tree
Holly
Hornbeam
Larch
Littleleaf Linden
Magnolia
Pine
Serviceberry
Spruce
Tuliptree
Yellowwood
Yew, Japanese
Zelkova