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TWOSPOTTED SPIDER MITE

SCIENTIFIC NAME: *Tetranychus urticae* Koch

CLASS: Arachnida

ORDER: Acari

FAMILY: Tetranychidae



Twospotted Spider Mite

From: [Univerisit of California](#)



Twospotted Spider Mite and Eggs

From: [Univerisit of Wisconsin Urban Horticulture](#)

DESCRIPTION

Adults: The eight-legged adult can be pale green, greenish amber, or ellowish. Usual having two (sometimes four) black spots on top, the twospotted spider mite is about 0.4 millimeters long.

Eggs: The spherical egg ranges from transparent and colorless to opaque straw ellow.

Larvae: The si“-legged larva is colorless, pale green, or ellow.

Nmphs: Similar to the adult e“-cept in sie, the nmph has eight legs and is pale green to brownish green. Large black spots ma develop on each side.

BIOLOGY

Host Plants: Twospotted spider mites have been reported on over 300 host plants, that include over 100 cultivated species. Violets, chickweed, pokeweed, wild mustard, henbit, vetch, and blackberr are common foci from which infestations develop on nearb crops.

Damage: Twospotted spider mites pierce the epidermis of the host plant leaf with their sharp, slender mouthparts. When the e“-tract the sap, the mesophll tissue of the leaf collapses in the area of the puncture. Soon a chlorotic spot forms at each feeding site. After a heav attack, an entire plant ma become ellowed, broned, or

killed completely. The mites make a complete web over entire plants.

Life Cycle: Twospotted spider mites are important pests on more crops than any other arthropod in the Southeast. Though insects and mites are in a group called the Arthropoda (meaning jointed foot) because jointed legs are common to both, spider mites are not actually insects. They are more closely related to spiders, and they derive their name from the thin web which some species spin.

In North Carolina, twospotted spider mites overwinter as adults in the soil or on weed hosts such as violets, henbit, and hollhocks. In mild winter weather, twospotted spider mites continue to feed and lay eggs, although development in the winter is much slower than in the summer. From the eggs hatch six-legged larvae. They develop into eight-legged nymphs which pass through two nymphal stages. After each larval and nymphal stage, there is a resting stage. The adults mate soon after emerging from the last resting stage, and in warm weather the females soon lay eggs. Each female may lay over 100 eggs in her life and up to 19 eggs per day. Development is rapid in hot, dry weather. Each generation may take as many as 20 or as few as 5 days to mature.

The often damage one species of plant quite heavily and then disperse to other hosts. When a plant is heavily damaged, the mites migrate to the outer periphery of the plant. From here, even the gentlest of breezes can carry them a significant distance to attack new hosts.

MANAGEMENT STRATEGIES

Cultural control: If spider mite infestations are detected early enough, a daily misting or spraying with water can be an effective control.

Pesticides: The use of foliar insecticides in hot, dry weather can induce spider mite outbreaks by killing the beneficial arthropods that would normally feed on the mites. In addition, a fungal pathogen attacks spider mites following short periods of cool, damp weather. Certain fungicides can eliminate this fungus and should be avoided for several weeks if plants are infested and such conditions occur.

The resting stages and eggs of the twospotted spider mite are more tolerant to pesticides than the motile forms. Consequently, a second application of pesticide may be necessary at 4- or 5-day intervals in hot weather (7 to 10 days in cool weather) to kill those mites that may have survived the first application. For specific chemical control recommendations, consult the [Cooperative Extension Service](#).

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