

(revision date:6/8/2015)

Raspberry: Leafrollers

Use *Integrated Pest Management (IPM)* for successful plant problem management.

Biology

Several species of leafrollers can occur on raspberries and related plants. The caterpillars are typically light to dark green with light or dark heads, and are about 3/4" long at maturity. Typical symptoms of leafroller feeding include damaged buds and leaves that are rolled and tied with webbing. Leafrollers may also feed on ripe fruit. The larvae typically produce large amounts of webbing on the plants. Leafroller caterpillars are often active when disturbed, wiggling vigorously or dropping to the ground on a thread. The larvae often overwinter in webbed leaves or crevices on canes. The adult moths are 1/2" to 3/4" long and are brown or mottled tan and rusty brown. Some species have darker bands across the wings. Plants easily tolerate some damage from leafrollers, which are seldom serious pests. Leafrollers may be contaminants of harvested fruit.

Management Options

Non-Chemical Management

- ~ Pick out and destroy rolled leaves and caterpillars, when practical.
- ~ Pinch rolled leaves to kill caterpillars.
- ~ Clean up leaf debris on and under plants.
- ~ Provide proper culture. Proper pruning and training of canes can reduce leafroller populations. For more information, see EB 1640, Growing Small Fruits for the Home Garden.
- ~ Encourage natural enemies of caterpillars including birds, parasitic wasps and flies, and predacious beetles. Avoid use of broad-spectrum insecticides which kill beneficial insects.

Select non-chemical management options as your first choice!

Chemical Management

IMPORTANT: Visit *Home and Garden Fact Sheets* for more information on using pesticides

Use a spreader-sticker with liquid Bt formulations. Apply before blossoms open. Permethrin is highly toxic to bees and should never be used during the bloom season.

Listed below are examples of pesticides that are legal in Washington. Always read and follow all label directions.

- ~ Bonide Captain Jack's Deadbug Brew R-T-U [Organic]
 - active ingredient: *spinosad* (*spinosyn A+D*)
 - EPA reg no: 4-472
- ~ Bonide Eight Insect Control Garden & Home R-T-U
 - active ingredient: *permethrin*
 - EPA reg no: 4-406
- ~ Bonide Thuricide BT Conc
 - active ingredient: *Bacillus thuringiensis subsp. kurstaki*
 - EPA reg no: 4-226
- ~ Safer Brand Garden Dust RTU [Organic]
 - active ingredient: *Bacillus thuringiensis subsp. kurstaki*
 - EPA reg no: 36488-25-42697
- ~ This list may not include all products registered for this use.

Raspberry: Leafrollers

Images



~ Caption: European leafroller
~ Photo by: S.M. Fitzpatrick and J.T. Troubridge



~ Caption: Obliquebanded leafroller adult
~ Photo by: J.F. Brunner



~ Caption: Obliquebanded leafroller damage
~ Photo by: J.F. Brunner