

WALNUT - CODLING MOTH

General Information

GENERAL INFORMATION

Confirm 2F insecticide mimics the action of the natural insect hormone 20-hydroxyecdysone, the physiological inducer of the molting and metamorphosis process in insects. Confirm 2F is highly active against most lepidopterous larvae while having practically no activity at typical use rates against other orders of insects. The selectivity of Confirm 2F allows for the maintenance of the populations of beneficial and predatory insects, which is a key element in integrated pest management programs. Confirm 2F controls lepidopterous larvae through a novel mode of action by the induction of a premature lethal molt which initiates within hours of ingestion of treated crop surfaces. Contact activity has also been observed in some insects. Actual death of the larvae will take several days to occur, although feeding by the insects generally ceases within 24 hours of ingestion.

Application Timing

The activity of Confirm 2F is expressed primarily through ingestion by the target larvae. Consequently, the timing of application is dependent upon the feeding behavior of the target pest. For internal feeding larvae, application must be made prior to the time that surface feeding occurs. For foliar or surface feeding larvae, application made while active feeding is occurring will be effective.

Reapplication may be required to protect new flushes of foliage or rapidly expanding fruit. The reapplication interval will vary depending upon how rapidly the crop is growing and the generation time of the target pest. While Confirm 2F is essentially equally effective against all instars, it is generally good practice to make applications to early instars to avoid the heavy damage that can be inflicted by later instar larvae. For best results, begin applications when first signs of feeding damage or when threshold levels of moths, eggs or larvae occur. Consult the Cooperative Extension Service, or other qualified professional authorities, to determine the appropriate threshold for application in your area.

Limitations, Restrictions, and Exceptions

APPLICATION TIMING

For each codling moth generation, apply at initiation of egg hatch (200 to 250 DD following biofix). Control of first generation codling moth may require a second application 10 to 14 days following first application to ensure complete coverage of rapidly expanding foliage and

expanding surface area of the walnut. After plant foliage expansion and walnut growth has ceased, multiple applications (every 14 to 21 days) may be required to provide control of extended codling moth flights.

Higher use rates may also be used for extended residual effectiveness, higher pest infestation levels, larger trees or heavy, dense foliage.

RESTRICTIONS

- Do not apply more than 30 fl oz per application or 122 fl oz per season.
- Allow at least 14 days to elapse between final application and harvest.

Do not graze livestock in treated areas or feed cover crops grown in treated areas to livestock.

Ground Application: Make applications of Confirm 2F by conventional ground sprayers which are calibrated to deliver a minimum of 50 gallons per acre to walnut trees 4th leaf or younger. For walnut trees 5th leaf or older use a minimum of 100 gallons per acre. Ground speed of the sprayer should not exceed 2 mph.

Aerial Application: Make application of Confirm 2F in a minimum of 20 gallons per acre. Confirm 2F can be applied by aerial applications when situations warrant. However, application by this method may result in reduced efficacy if the size of the tree or density of the foliage prohibits thorough, uniform coverage of the entire tree canopy.

Split Application: In order to achieve thorough uniform coverage of extremely tall, dense trees, it may be preferable to apply a split

application composed of both aerial and ground methods. The total amount of Confirm 2F applied in a split application cannot exceed 30 fl oz per acre.

First sustained moth catch (biofix) is defined as the date on which the total of five

moths are captured in three pheromone traps within a seven-day period. Consult State Extension Specialists or other qualified authorities for specific information regarding number, placement and management of pheromone traps.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field_rates 0](#)

[field_rates 1](#)

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Restricted Entry Interval

4 hours

Timings

[At initiation of egg hatch.](#)