

# **TREE NUTS CROP GROUP AND PISTACHIOS**

## General Information

### GENERAL INFORMATION

Proclaim Insecticide is a selective insecticide for use on: Brassica Leafy Vegetables (cole crops), Fruiting Vegetables, Leafy Vegetables, Pome Fruit, and Turnip Greens (tops, leaves).

Proclaim Insecticide controls the larval stages (worms/caterpillars) of certain lepidopteran species. Proclaim Insecticide has contact activity, but is most efficacious when ingested by the pest. Shortly after exposure to Proclaim Insecticide, affected larvae are paralyzed, stop feeding, and subsequently die after 2-4 days.

Proclaim Insecticide has been tested for phytotoxicity and has a wide margin of safety on the crops listed on the label.

- Apply Proclaim Insecticide to plant foliage when larvae first appear, but before populations reach damaging levels. Target Proclaim Insecticide applications at small (1/4 inch in length) larvae.
- Thorough spray coverage is essential for optimum performance. Apply Proclaim Insecticide in sufficient water to ensure good coverage of all plant surfaces. The use of greater water volumes will generally result in better coverage, especially under adverse conditions (e.g., hot, dry) or when the plant canopy is dense. See the CROP USE DIRECTIONS section of the label for specific spray volume recommendations for different crops.
- The use of a penetrating type spray adjuvant, at the manufacturer's suggested rate, is recommended for all applications of Proclaim Insecticide. The use of an adjuvant typically improves coverage and penetration and results in optimum insect control, especially in crops with hard-to-wet leaf surfaces. However, do not use sticker/binder type adjuvants because they may reduce translaminar movement of the active ingredient into the plant.

## RESISTANCE MANAGEMENT

Proclaim Insecticide is a Group 6 insecticide (contains the active ingredient emamectin benzoate).

Because of the inherent risks of resistance development to any product, it is strongly advised that Proclaim Insecticide be used in a sound resistance management program. Treatment may not be effective against labeled pests if insect or mite-tolerant strains develop. When applying Proclaim Insecticide to plants that are hosts of labeled pests and these labeled pests have multiple generations per crop per year, use resistance management practices.

TYPE OF APPLICATION EQUIPMENT: 10 gal./A

- If the crop canopy is dense or worm infestation is high, increase the amount of water.

AIR BLAST SPRAYERS (FOR ORCHARD APPLICATION): 40 gal./A

- Concentrate sprays: Minimum gal./A for concentrate spray application (i.e. an application method providing uniform spray coverage of all plant parts but not to the point of runoff.)

- Dilute sprays: The rate of Proclaim Insecticide per 100 gal. is based on a volume of 400 gal./A of dilute spray. Dilute spray volume per acre will vary by orchard depending on tree size, tree spacing and canopy density. Dilute sprays are applied just to the point of runoff.

AIRCRAFT: 5 gal./A

Increase spray volume to 10-20 gal./A under adverse conditions (i.e., high temperature, low relative humidity, or dense canopy).

## USE RESTRICTIONS FOR ALL VEGETABLES

- Location Prohibition: Do not use Proclaim Insecticide in greenhouses, nurseries, in plant propagation houses, or on any plants grown for use as transplants.

- Minimum Application Rates: Do not apply Proclaim Insecticide at rates lower than the rates specified on the label.
- Number of Applications: Do not apply more than 2 sequential applications of Proclaim Insecticide. Rotate to another insect control product with a different mode of action.
- Adjuvant Recommendation: Thorough spray coverage of plant foliage is essential for optimum control. To provide optimum coverage and insect control, the use of a penetrating type spray adjuvant at the manufacturer's suggested rate is recommended. Do not use a sticker/binder type adjuvant.
- Application following failure of another insecticide: Do not apply Proclaim Insecticide following the failure of another product if the larvae are large (>1/4 inch long).
- Grazing: Do not allow livestock to graze in treated areas.

#### Aerial Application Prohibition for New York

#### Use Restrictions

- Do not apply Proclaim Insecticide by aircraft in New York State.
- Do not use Proclaim Insecticide in greenhouses, nurseries, plant propagation houses, or on any plants grown for use as transplants.
- Do not apply this product through any type irrigation system.
- Do not apply at rates lower than those recommended on the label.
- Thorough spray coverage of plant foliage is essential for optimum control.

Apply in sufficient water to ensure good coverage; use a minimum of 10 gals. /A with Proclaim Insecticide when applied by ground and 5 gals. /A when applied by air.

- The use of a penetrating-type spray adjuvant at the manufacturer's suggested rate is recommended to provide optimum coverage and insect control. Do not use a sticker/binder type adjuvant.
- Do not make more than 2 sequential applications without rotating to another

insect control product with a different mode of action.

- Do not apply following a field failure of another product if larvae are large (>1/4 inch long).
- Do not allow livestock to graze in treated areas.

Limitations, Restrictions, and Exceptions

#### TREE NUTS CROP GROUP AND PISTACHIOS

- Use the lowest rate for low to moderate infestations and the highest rate for high infestations.
- Apply, as needed, using locally recommended scouting and monitoring techniques.
- Timing and frequency of applications should be based on target insect populations reaching locally determined economic thresholds.
- Proclaim Insecticide should be applied at or immediately after hatch of the target insect to insure treatment of small larvae.
- Treatments must be made before larvae penetrate fruit or stems or before larvae begin webbing and sheltering.
- Thorough spray coverage of plant foliage is essential for optimum control. Apply in sufficient water to ensure coverage. See Use Restrictions for minimum gals/A.
- For best results, it is recommended that Proclaim Insecticide be applied in combination with a Horticultural spray oil (not a dormant oil) or a nonionic surfactant as directed by the product manufacturer. Do not use a sticker/binder type of adjuvant.
- Application may be repeated to maintain control – typically at 7 to 14-day intervals. See Use Restrictions.

Spider mites:

- Provides suppression only. Suppression means either erratic control ranging from good to poor or consistent control at a level below that which is generally considered acceptable for commercial control.

- Refers to phytophagous mites in the Acari subfamily Tetranychinae.

#### Use Restrictions:

- Prohibitions: (Notify workers of these prohibitions.)
- Do not allow workers to perform the following tasks until 48 hours after application: poling, pruning, and thinning.
- Location Prohibitions: Do not use Proclaim Insecticide in greenhouses, nurseries, or in plant propagation houses, or on any plants grown for use as transplants.
- PHI: Allow a minimum of 14 days between the last application and harvest
- Application Method: Ground application equipment only. Aerial application is not permitted.
- Amount of Water:
- Concentrate sprays: Apply in sufficient water to provide uniform spray coverage of all plant parts but not to the point of runoff. For air blast sprayers use a minimum of 40 gals. of water per acre.
- Dilute sprays: The rate of Proclaim Insecticide per 100 gals. is based on a volume of 400 gals./A of dilute spray. Dilute spray volume per acre will vary by orchard depending on tree size, tree spacing, and canopy density. Dilute sprays are applied to the point of runoff.
- Amount per Application: Do not apply at rates lower than those recommended on the label.
- Maximum Amount per Application: Do not apply more than 4.8 oz./A per application.
- Application Interval: Allow a minimum of 7 days between applications.
- Maximum Amount Per Season: Do not apply more than 14.4 oz./A per season.
- Grazing: Do not allow livestock to graze in treated areas.

#### Method

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

14 days

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

12 hours

Timings

[At or immediately after hatch of the target insect to insure treatment of small larvae.](#)