

# **APPLES - CODLING MOTH - MICHIGAN**

## 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

#### APPLES

Apply Proclaim at the rate of 4.8 ounces /acre to control first generation codling moth larvae. Apply the first application at codling moth egg hatch or immediately thereafter and the second application 7-14 days later.

Do not apply more than 14.4 oz/season to apples.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Rates

[field\\_rates 0](#)

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#### Restricted Entry Interval

12 hours

#### Timings

[Apply the first application at codling moth egg hatch or immediately thereafter and the second application 7-14 days later.](#)