

Diaprepes Root Weevil Project

Voluntary Treatment Protocol

GENERAL GUIDELINES

1. Pre-quarantine guidelines:

These guidelines are for nurseries that want to take a proactive approach to the Diaprepes issue and be in compliance with the larval soil treatment aspect of the approved Diaprepes quarantine protocol should they in the future fall within a Diaprepes quarantine boundary in the future.

- Nursery must sign a Voluntary Treatment Agreement with California Department of Food & Agriculture (CDFA) and San Diego Agriculture Department (County).
- All necessary county & state permits to purchase and apply pesticides must be obtained and secured by nursery or his/her agent before nursery can enter into program. Nursery can contact San Diego County - Department of Pesticide Regulation for needed documents and help with requirements at 858-694-2748.
- Pesticide use reports must be filled out as prescribed by San Diego County's Department of Pesticide Regulation with a copy available to CDFA's District Pest Exclusion office upon request.
- All nurseries must follow protocols set forth in this document, and record or catalogue all treatments, which can be verified by pesticide use records. These on-site records will be made available to Project staff upon request.
- First treatment must be scheduled with CDFA district office. A quarantine officer may be present for the first treatment.
- CDFA or County staff may make unannounced visits to monitor treatments for quality assurance.

Note: As long as a Diaprepes quarantine is not imposed covering your geographical location, all nursery stock following the procedures described in the Voluntary Treatment Protocol may be moved at any time, whether treated or not.

2. Quarantine guidelines: These are found in the "Approved Treatments for Nurseries in State Interior Quarantine Areas".

3. Treatment procedures:

- Pesticides for larval control will be applied to nursery containers either as a soil drench or soil incorporation. (See approved pesticide table.)
 - In-ground nursery stock will not be eligible to be treated.

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- Nursery stock arriving on nursery premises that will be shipped out does not have to be treated but must be segregated from treated nursery stock. The segregated area must be either a physical barrier, such as an enclosed greenhouse, or an area labeled as a holding area for new arrivals only and plants to be shipped must be physically separated from the rest of the nursery stock.
 - All new nursery stock arriving on premises will be segregated from treated nursery stock and will be treated per protocol before they are added to current nursery inventory.

- When using pesticide soil-incorporation method:
 - Plant liners and seeds are planted directly into pesticide-incorporated soil.
 - Pesticide-incorporated soil can be used to “pot-up” making sure all sides and top are covered with soil. For large boxes 24” or larger there should be at least 4 inches of pesticide-incorporated soil on top of root ball of shifted stock.

INFORMATION ON PESTICIDES FOR VOLUNTARY TREATMENT PROGRAM

Approved pesticides:

Talstar Nursery Flowable - EPA Reg. No. 279-3155

Up-Star SC Lawn & Nursery – EPA Reg. No. 70506-23 (Talstar Flowable equivalent)

Wisdom Flowable – EPA Reg. No. 5481-519 (Talstar Flowable equivalent)

Talstar Nursery Granular - EPA Reg. No. 279-3130

Up-Star Nursery Granular - EPA Reg. No. 70506-75 (Talstar Nursery Granular equivalent)

Wisdom Nursery Granular EPA Reg. No. 5481-522 (Talstar Nursery Granular equivalent)

Admire Pro Systemic - EPA Reg. No. 264-827 (may be used for containerized citrus)

Admire 2 Flowable Insecticide - EPA Reg. No. 264-758 (may be used for containerized citrus)

Pesticides below for use on plants (pot size 4” or less) with short certification needs – See Protocol A-5,b

Flagship 25W - EPA Reg. No. 100-955

Marathon II – EPA Reg. No. 432-1369-AA-59807

Marathon 60WP – EPA Reg. No. 432-1361-AA-59807

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Table 1. Approved Pesticide and Uses in Voluntary Treatment Program**

Approved Pesticides for Usage	Example What Applied For and Most Appropriate Usage
Talstar Nursery Flowable EPA Reg. No. 279-3155 Up-Star SC Lawn & Nursery EPA Reg. No. 70506-23 Wisdom Flowable EPA Reg. No. 5481-519 (active ingredient – bifenthrin)	Drench for younger instar larvae Recommended for containerized nursery stock and non-bearing fruit and nut trees.
Talstar Nursery Granular EPA Reg. No. 279-3130 Up-Star Nursery Granular EPA Reg. No. 70506-75 Wisdom Nursery Granular EPA Reg.No. 5481-522 (active ingredient – bifenthrin)	Soil Incorporation for younger instar larvae Recommended for containerized nursery stock and non-bearing fruit and nut trees.
Admire Pro Sytemic EPA Reg. No. 264-827 Admire 2 Flowable EPA Reg. No. 264-758 (active ingredient – imidacloprid)	Drench for younger instar larvae Recommended for containerized citrus
Pesticides below for Containerized plants, less than or equal to 4” pots- See Protocol A, 5.b	
Flagship 24W EPA Reg. No. 400-465 (active ingredient thiamethoxam)	Drench for younger instar larvae. For use on ornamental nursery stock and on non-bearing fruit and nut trees only.
Marathon II EPA Reg. No. 432-1369-AA-59807 (active ingredient imidacloprid)	Drench for younger instar larvae. For use on non-bearing citrus and nursery stock.
Marathon 60WP Greenhouse & Nursery EPA Reg. No. 432-1361-AA-59807 (active ingredient imidacloprid)	Drench for younger instar larvae. For use on non-bearing citrus and nursery stock.

Table 2. Approved Pesticide Rates and Certification Period**

Approved Pesticides for Usage	Rate	Approximate Certification Period*
Talstar Nursery Flowable EPA Reg. No. 279-3155 Up-Star SC Lawn & Nursery EPA Reg. No. 70506-23 Wisdom Flowable EPA Reg. No. 5481-519 (active ingredient – bifenthrin)	40 ozs/100 gallon	12 months
Talstar Nursery Granular EPA Reg. No. 279-3130 Up-Star Nursery Granular EPA Reg. No. 70506-75 Wisdom Nursery Granular EPA Reg.No. 5481-522 (active ingredient – bifenthrin)	Max label rate (see bulk density table on label)	24 months
Admire Pro Sytemic EPA Reg. No. 264-827 Admire 2 Flowable EPA Reg. No. 264-758 (active ingredient – imidacloprid)	See label rate --1.1 ml/ft3 media - citrus	Max. rate per label per year – continuous with applications

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	(only .5 pounds of active ingredient, per acre, per crop season.)	
Pesticides below for use on plants with short duration certification needs- See Protocol A - 5,b		
Flagship 24W 400-465 (active ingredient thiamethoxam)	8.0 oz/acre	
Marathon II 432-1369-AA-59807 (active ingredient imidacloprid)	1.7 floz/1000 6 inch pots	
Marathon 60WP Greenhouse & Nursery 432-1361-AA-59807 (active ingredient imidacloprid)	1 pkt/1000 6 inch pots	

**These tables are for quick reference but always read the pesticide label for complete instructions.

*Certification: Soil testing may be done to check pesticide levels.

NOTEWORTHY FACILITIES AND PROCEDURES NEEDED TO CONSIDER

Facilities:

- Ability to segregate treated from untreated nursery stock.
- Area and ability to separate newly arrived shipments that are expected to immediately ship out of your facility from all other nursery stock.
- Ability to designate and track number and type of treatments (drench or soil incorporation) received by nursery plants within the Voluntary Treatment Program