

**California Department of Food and Agriculture
Light Brown Apple Moth
Approved Treatments for Nurseries and Host Crops**

Listed below are the products for control or prevention of Light Brown Apple Moth (LBAM) at nurseries and/or crop production areas. Establishments where a LBAM infestation has been detected must follow procedures outlines in the LBAM Regulatory Procedures Manual.

Label rates lower than approved quarantine rates may not be used for quarantine purposes.

It is incumbent upon the user to follow all label restrictions

Target Life Stage: Eggs*/Larvae				
Active Ingredient	Approved Products	EPA Reg #	Sites	Approved Quarantine Rates and Remarks
Lambda-cyhalothrin *	Scimitar GC	100-1088-AA	Ornamentals	Apply at maximum label rate of 148 ml/100 gallons water (38 ppm ai by volume) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. SEE LABEL
Methoxyfenozide *	Intrepid 2F	62719-442, See Supplemental label for ornamentals.	Crops, Ornamentals, Christmas trees	Apply at label rate of 500 ml/100 gallons water (300 ppm ai by volume) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. SEE LABEL
Chlorantraniliprole *	Acelepryn	100-1489-AA	Landscape, Ornamental Plants	Apply at label rate of 2.0 fl. oz. ml/100 gallons water with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. SEE LABEL
Spinosad * (including spinosyn A & D)	Conserve SC	62719-291-AA (SLN)	Ornamentals	Apply at maximum label rate of 650 ml/100 gallons water (22 fl. oz/100 gallons water) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. SEE LABEL
	Entrust	62719-282-AA (SLN)	Ornamentals	Apply at maximum label rate of 68 ml/100 gallons water)2.3 fl.oz/100 gallons water) with approved superior-type spray oil at a rate of 1% or more by volume. Ensure thorough coverage of plant material. SEE LABEL
* An approved petroleum based paraffinic spray oil must be used to be considered an approved treatment for eggs/larvae. Approved oils can be found on page 3.				

Target Life Stage: Adults				
Active Ingredient	Approved Products	EPA Reg #	Sites	Approved Quarantine Rates and Remarks
Currently none				

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Target Life Stage: Larvae				
Active Ingredient	Approved Products	EPA Reg #	Sites	Approved Quarantine Rates and Remarks
BT (<i>Bacillus thuringiensis</i>)	Dipel Pro DF	73049-39-ZA	Ornamental and Crops	Two treatments required. Apply at maximum label rate. Treatments must not be after 12:00 p.m., unless under shade-cloth, to minimize UV exposure. Treated plants must be held and safeguarded for 10 days after first treatment. Re-apply 7 to 10 days after application of first treatment. Re-inspection cannot occur prior to end of 10 day holding period. SEE LABEL
	Dipel DF	73049-39-AA	Crops	
Lambda-cyhalothrin	Scimitar GC	100-1088-AA	Ornamentals	Apply at maximum label rate of 148ml/100 gallons water (38 ppm ai by volume). Treated plants must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. SEE LABEL
Chlorantraniliprole	Acelepryn	352-731	Landscape ornamental plants	Apply at rate of 2.0 fl.oz per 100 gallons water. Treated plants must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. SEE LABEL
Spinosad (including spinosyn A & D)	Conserve SC	62719-291-AA (SLN)	Ornamentals	Apply at maximum label rate of 650 ml/100 gallons water (22 fl.oz/100 gallons water). Treated platns must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. SEE LABEL
	Entrust	62719-282-AA (SLN)	Ornamentals	Apply at maximum label rate of 68 ml/100 gallons water (22 fl.oz/100 gallons water). Treated platns must be held and safeguarded for 10 days after treatment. Re-inspection cannot occur prior to end of 10 day holding period. SEE LABEL

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Approved petroleum based paraffinic spray oils must be in formulations of 97% or > oil concentration, with a spray concentration of 1% volume/volume oil in a tank mix with the other approved pesticide. Petroleum based paraffinic spray oils include narrow range horticultural mineral spray oils, superior-type spray oils, supreme oils, horticultural mineral oils, dormant spray oils, or petroleum derived spray oils. *Using a petroleum based paraffinic spray oil to target eggs is not an approved quarantine treatment when used alone.*

Active Ingredient	Approved Product	EPA Reg #	Sites	Approved Quarantine Rates and Remarks
<p>Petroleum based paraffinic spray oil</p> <ul style="list-style-type: none"> • Equivalent to 97% petroleum oil • 60% or greater paraffinic fractions • 92% or greater unsulfonated residues • Spray concentration of 1% volume/volume oil in a tank mix with the other approved pesticide • An approved larvacide must be used to be considered an approved treatment for eggs/larvae. Approved larvacides are listed in the chart above, titled “Target Life Stage: Eggs*/Larvae.” 	<p>Bonide All Seasons Commercial Horticultural and Dormant Spray Oil</p>	<p>4-80-AA</p>	<p>Ornamentals and Crops</p>	<p>Apply at label rate. Ensure thorough coverage of plant material. SEE LABEL</p>
<ul style="list-style-type: none"> • Using a petroleum based paraffinic spray oil to target eggs is not an approved quarantine treatment when used alone. 	<p>Any mineral oil targetting LBAM with 97% or greater oil concentration</p>	<p>N/A</p>	<p>Ornamentals and Crops</p>	<p>Apply according to label rate and directions. Ensure thorough coverage of plant material.</p>