

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

Listed below are *examples* of approved 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 outlined in the [LBAM Regulatory Procedures Manual](#).

It is incumbent upon the user to follow all label restrictions. Products not on the list below may be approved if they can be applied at the equivalent active ingredient (ai) rate specified for the example. Search products based on multiple categories (site and chemical code) at: <http://www.cdpr.ca.gov/docs/label/m4.htm>.

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

Target Life Stage: Eggs/Larvae				
Active Ingredient	Product Examples	EPA Reg. #	Sites	Approved Quarantine Rates and Remarks
Chlorpyrifos with superior-type spray oil*	DuraGuard ME Dursban 50W Chlorpyrifos Pro 2 Chlorpyrifos Pro 4	499-367-ZA 62719-72-ZA 51036-152-AA 51036-154-AA	Ornamentals	Apply at label rate not less than 250 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
Lambda-cyhalothrin with superior-type spray oil*	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 with superior-type spray oil*	Intrepid 2F	62719-442, See Supplemental label for ornamentals	Crops, ornamentals, and 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
Indoxacarb with superior-type spray oil*	Provaunt WG	352-716	Ornamentals- Exterior landscapes	Apply at label rate of 2.5 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

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Chlorantraniliprole with superior-type spray oil*	Acelepryn	352-731	Ornamentals- Exterior landscapes	Apply at label rate of 2.0 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
Spinosad (including spinosyn A and D) with superior-type spray oil*	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
		62719-282-AA (SLN)	Crops	Ensure thorough coverage of plant material. SEE LABEL

***Superior-type spray oil is not an approved quarantine treatment targeting eggs when used alone. The superior-type spray oils listed below are the only approved superior-type spray oil products at this time.**

Active Ingredient	Product Examples	EPA Reg. #	Sites	Approved Quarantine Rates and Remarks
Superior-type spray oil <i>Not less than 1% by volume</i>	Bonide All Seasons Commercial Horticultural and Dormant Spray Oil	4-80-ZB 4-80	Ornamentals and Crops	Apply at label rate. Application rate less than the label rate is acceptable if not less than 1%.
	Purespray Green Organic Horticultural Spray Oil	69526-9-ZA 69526-9-AA 69536-9	Ornamentals and Crops	SEE LABEL

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Target Life Stage: Larvae				
Active Ingredient	Product Examples	EPA Reg. #	Sites	Approved Quarantine Rates and Remarks
BT (<i>Bacillus thuringiensis</i>)	Crymax Dipel Pro DF Deliver Javelin	70051-86-AA 73049-39-ZA 70051-69 70051-66	Ornamentals and Crops	Two treatments required. Apply at maximum label rate. Treatments must 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	
Carbaryl	Sevin 4F	264- 349-ZB	Crops and Christmas trees	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
Chlorpyrifos	DuraGuard ME Dursban 50W Chlorpyrifos Pro 2 Chlorpyrifos Pro 4	499-367-ZA 62719-72-ZA 51036-152-AA 51036-154-AA	Ornamentals	Apply at not less than 250ppm 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
Dimethoate 400	Dimethoate	34704-207-ZA	Ornamentals and Crops	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

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Target Life Stage: Larvae				
Active Ingredient	Product Examples	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). 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
Methoxyfenozide	Intrepid 2F	62719- 442-AA See supplemental label for ornamentals	Crops, ornamentals, and Christmas trees	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
Phosmet	Imidan 70W Imidan 70 WP	10163-169-ZA 10163-169-AA	Ornamentals, Crops and Christmas trees	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	Nursery and ornamental plants	Apply at rate of 2.0 fl.oz per 100 gallons water. reated 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
Indoxacarb	Provaunt	352-716	Nursery and ornamental plants	Apply at rate of 2.5 fl.oz per 100 gallons water. reated 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

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Target Life Stage: Larvae				
Active Ingredient	Product Examples	EPA Reg. #	Sites	Approved Quarantine Rates and Remarks
Spinosad (including spinosyn A and 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 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
	Entrust	62719-282-AA (SLN)	Ornamentals	Apply at maximum label rate of 68 ml/100 gallons water (2.3 fl.oz /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
		62719-282-AA (SLN)	Crops	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
Tebufenozide	Confirm 2F	62719-420-ZB	Crops and Christmas trees	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

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Target Life Stage: Adults				
Active Ingredient	Product Examples	EPA Reg. #	Sites	Approved Quarantine Rates and Remarks
Carbaryl	Sevin 4F	264- 349-ZB	Crops and Christmas trees	SEE LABEL
	Sevin SL	432-1227-ZA	Ornamentals, Crops and Christmas trees	
Chlorpyrifos	DuraGuard ME	499-367-ZA	Ornamentals	Apply at not less than 250ppm ai by volume. SEE LABEL
	Dursban 50W	62719-72-ZA		
	Chlorpyrifos Pro 2	51036-152-AA		
	Chlorpyrifos Pro 4	51036-154-AA		
Deltamethrin	Suspend SC	432-763-ZB	Ornamentals	SEE LABEL