

# Fruit Production Recommendations 2010-2011

Ontario Ministry of Agriculture, Food & Rural Affairs

## Chapter 8: Tree Nuts



### Walnut Calendar

Read the label and follow all safety precautions.

Consult the product label for suggested water volumes. Otherwise, use enough water to ensure thorough spray coverage. Where the product rate is listed in amount per 1,000 L and if a water volume is not provided on the label, use enough water to wet the foliage to the near drip point.

For preharvest interval, re-entry period, maximum number of applications and chemical group, see Table 8-1. *Products Used on Tree Nuts*, page 191.

Diseases and Insects	Products	Rate	Comments
<b>Prebloom</b>			
Leafrollers	Dipel 2X DF	1.12 kg/ha	<p><b>Dipel:</b> Apply when small larvae are present. Apply in 600–800 L water/ha using an orchard air-blast sprayer. Repeat in 7–10 days or after bloom if populations are large. Although Dipel is not toxic to bees, avoid application during bloom. Use 1.6 kg/ha for large or mature trees. See <i>Biopesticides and reduced risk products for insect control</i>, page 17, and notes on <i>Bacillus thuringiensis</i> var. <i>kurstaki</i>, page 17.</p> <p>Surround: Reduces damage due to leafrollers. Apply in 1,000 L water/ha. Apply just prior to green tip or when larvae are first seen. Make a first application before larvae roll up into leaves and a second application 7 days later. Repeat at 7–14 day intervals as subsequent generations emerge. See notes on <i>Kaolin Clay (Surround WP)</i>, page 17.</p>
	Surround WP	50.0 kg/ ha	
Aphids	Movento 240 SC	365 mL/ha	<p>Most effective on young stages of aphids.</p> <p>Movento: Has slow activity; control may not be apparent for 2–3 weeks. Under high pressure a second application may be necessary. Allow at least 14 days between applications. Thorough coverage is necessary for good control of aphid and scale pests. See label for recommendations to prevent spray drift. Do not apply more than 1.58 L/ha/year.</p> <p>Opal: Apply 700–1,900 L of spray solution/ha. Spray to wetting but minimize runoff. Begin applications when pests first appear. Repeat every 1–3 weeks as needed. Apply Opal no more than 3 times; additional applications will increase the risk of plant injury. Avoid application in direct sunlight.</p>
	Opal Insecticidal Soap	20 L/1,000 L water	
San Jose scale	Movento 240 SC	585 mL/ha	<p>Monitor scaffold branches for adult scale. Spray when crawlers are active. Contact a crop IPM specialist for assistance with timing sprays. See comments for aphids above.</p>
	Opal Insecticidal Soap	20 L/1,000 L water	
Mites	Opal Insecticidal Soap	20 L/1,000 L water	See comments on using Opal for aphids, above.

<b>Diseases and Insects</b>	<b>Products</b>	<b>Rate</b>	<b>Comments</b>
Codling moth	Isomate-CFM/OFM TT	500 dispensers/ha	Reduces mating of codling moth (CM). Initial CM populations must be low for good results. Apply to blocks of walnut or walnut/apple that are at least 4 ha in size. Timing is critical for effective control. Apply pheromone dispensers to the upper third of the tree canopy, before first flight of CM, no later than petal fall of apples. Double the rate of dispensers at the edges of orchards. This product lasts for up to 150 days for CM. See <i>Using mating disruption to control codling moth and oriental fruit moth (Isomate CFM/OFM TT)</i> , page 20.
<b>1st pistillate flower</b>			
Butternut curculio	Surround WP	50.0 kg/ha	Apply when visual inspection shows adult feeding and egg laying scars on new flower shoots. See notes on <i>Kaolin Clay (Surround WP)</i> , page 17.
Aphids	Movento 240 SC Opal Insecticidal Soap	365 mL/ha 20 L/1,000 L water	See comments on using these products for aphids <b>Prebloom</b> .
San Jose scale	Movento 240 SC Opal Insecticidal Soap	585 mL/ha 20 L/1,000 L water	See comments on using these products for San Jose scale at <b>Prebloom</b> .
Walnut blight	Copper Spray	4.0 kg/1,000 L	Apply in sufficient water to ensure complete coverage.
<b>Summer sprays</b>			
Husk maggot	Surround WP	50.0 kg/ha	Apply when sticky traps show adult activity, typically August to mid September. See notes on <i>Kaolin Clay (Surround WP)</i> , page 17.
Aphids	Movento 240 SC Opal Insecticidal Soap	365 mL/ha 20 L/1,000 L water	See comments on using these products for aphids <b>Prebloom</b> .
Walnut blight	Copper Spray	4.0 kg/1,000 L water	Apply in sufficient water to ensure complete coverage. Apply monthly until husks split, but not after husks split. Do not apply more than four times per season. Do not apply within 40 days of harvest.

**To order copies of Publication 360, Price \$20.00 + tax**

- Visit ServiceOntario Publications website at <http://www.ServiceOntario.ca/publications>
- Contact ServiceOntario Publications Contact Centre at:  
1-800-668-9938  
416-326-5300  
TTY 1-800-268-7095