

Fruit Production Recommendations 2010-2011

Ontario Ministry of Agriculture, Food & Rural Affairs

Chapter 8: Tree Nuts



Pecan and Sweet Chestnut Calendar

Read the label and follow all safety precautions.

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
Prebloom			
Leafrollers	Dipel 2X DF	1.12 kg/ha	Apply when small larvae are present. Apply in 600–800 L/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.
Aphids	Movento 240 SC Opal Insecticidal Soap	365 mL/ha 20 L/1,000 L water	Begin monitoring in mid-spring for young nymphs. Aphids are generally controlled by natural predation. Most effective on young stages of aphids. 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. 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.
Leafhoppers	Surround WP	50.0 kg/ha	Surround reduces damage due to leafhoppers. Use on sweet chestnut only, primarily on younger, newly establishing orchards. Larger mature trees are generally not significantly affected by leafhopper. Monitor for young nymphs in beginning mid to late spring. Apply Surround WP to young trees where leafhopper populations are high. Apply in 1,000 L water/ha, beginning when insects first appear. Repeat at 7–14 day intervals. See notes on <i>Kaolin Clay (Surround WP)</i> , page 17.
San Jose scale	Movento 240 SC	585 mL/ha	Monitor scaffold branches for adult scale. Scale insects are rarely a problem in chestnuts or pecans. See comments on Movento at Prebloom .
Mites	Opal Insecticidal Soap	20 L/1,000 L water	See comments on Opal for aphids at Prebloom .

Diseases and Insects	Products	Rate	Comments
1st pistillate flower			
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 aphids at Prebloom .
Leafhoppers	Surround WP	50.0 kg/ha	See comments on leafhoppers at Prebloom .
San Jose scale	Movento 240 SC	585 mL/ha	Monitor scaffold branches for adult scale. Scale insects are rarely a problem in chestnuts or pecans.
Summer sprays			
Aphids	Movento 240 SC Opal Insecticidal Soap	365 mL/ha 20 L/1,000 L water	See comments on aphids at Prebloom .
Leafhoppers	Surround WP	50.0 kg/ha	See comments on leafhoppers at Prebloom .
Chestnut blight	There are currently no fungicides registered to control chestnut blight infection. Monitor for orange-coloured cankers on branches and main trunk and prune infected wood where feasible. Remove prunings from the orchard to prevent spread of spores.		
Postharvest			
Small chestnut weevil Large chestnut weevil	There currently are no insecticides registered for control of chestnut weevil in nut trees. Monitor a sample of harvested crop (e.g. 50 nuts) by cutting open nuts and inspecting the nutmeat for signs of weevil larvae. Pick up all fallen nuts from the orchard floor to prevent over-wintering of weevils.		

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