

INSECT CONTROL FOR COMMERCIAL CHRISTMAS TREE PRODUCTION

Pest	Insecticide	Amount/100 gallons	Comments/Precautions
Aphids (Spray to runoff)	Cygon 2.67 EC	3 pt (3 T/3 gallons)	Apply as needed to prevent aphids and honeydew buildup. A Superior oil (70 sec.) may be used as a dormant spray in February. Cottony masses can sometimes be hosed off trees with a strong stream of water. Spray to point of runoff. Pine bark aphids must be sprayed when temperatures are at least 60 degrees F (when the aphids are active). When spraying with contact sprays such as Malathion, Maverick, etc.
	Diazinon 4 EC	1 pt (1 T/3 gallons)	
	Di-Syston 15 G (R)	Use 1-1.5 oz/tree	Work granules into soil and water thoroughly within 48 hours.
	dormant oil 98% Miscible Volck, Superior	1-2 gal	
	Dursban 2 EC	1 pt	
	Malathion 57% EC	1 1/2 pt (1 1/2 T/3 gallons)	Cottony masses on trees may be an indication of bark aphids infestation.
	Orthene 75S	1/3 lb	
Provado 1.6F	4-8 fl oz	Two applications at 7- to 10-day interval may be required to achieve control with Provado.	
Bagworm	<i>Bacillus thuringiensis</i> (BT)	Check label.	<i>Bacillus thuringiensis</i> is slow acting but effective and very safe.
	Cygon 2 EC	2 qt (4 T/3 gallons)	Apply when small bagworms are first observed. Spray foliage lightly. Make first application in early May, a second in early June if needed. In winter, hand picking and burning bags is an alternative to chemical treatment.
	Diazinon or Spectracide 25% EC	1 qt (2 T/3 gallons)	
	Dursban 2 EC	1 pt	
	Orthene 75S	1/3 lb	
	Orthene 1.3 lb/gal EC	2 qt (4 1/2 T/3 gallons)	
	Sevin 80S	1 1/4 lb	
Sevin XLR	1 qt	Sevin can cause foliar burn on Virginia Pine.	
Red Imported Fire Ants	Apply all bait products when ants are active and soil temperature is above 60 degrees F. Do not treat if rain is anticipated within 6 hours.		
	Abamectin (Varsity)	5-7 T/mound 1 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate.
	Fenoxycarb (Award, Hi-Yield Fire Ant Bait)	1-3 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate.
	Fipronil (Chipco Firestar fire ant bait)	5 T/mound 1.5-15 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate.
	Over-N-Out contact insecticide		The fipronil products have the same active ingredient but are different formulations – read and follow the label.

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Red Imported Fire Ants	Hydramethylnon (Amdro, Amdro Pro, Combat Fire Ant Bait, MaxForce)	2-5 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate.
	S - Methoprene (Extinguish)	3-5 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate. This is an IGR.
	Pyridine (Distance)	1-4 T/mound 1-1.5 lb/A	Mound-to-mound treatment rate. Broadcast treatment rate. This is an IGR.
Mites	Diazinon 4 EC	1 pt (1 T/3 gallons)	
	Di-Syston 15 G (R)	Use 1-1.5 oz/tree	Work granules into soil and water thoroughly within 48 hours.
	Dursban 2 EC	1 pt	Apply when mites and damage are observed. Repeat in 7 days. Webbing and bronzed needles are indications of mite infestations. Mites are usually worse during the hottest period of summer.
	Mavrik Aquaflow	8-10 oz	
	Omite CR	4.5-7.5 lb/A	Use sufficient water to provide thorough, uniform coverage.
Nantucket Pine Tip Moth	Asana XL 0.66 EC	5.8-9.6 oz	Apply as needed to maintain control.
	Cygon 2 EC	2 qt (2-4 T/3 gallons)	Timing is very important. Use pheromone traps. Check emergence from infested tips. Spray only as needed.
	Dimilin 25W	4 oz/A	AR 24-C exemption allows up to 8 applications of Dimilin per year.
	Di-Syston 15 G (R)	Use 1-1.5 oz/tree	Work granules into soil and water thoroughly within 48 hours.
	Imidan 70 WP	1 1/3 lb/A	Apply sufficient water to achieve complete coverage.
	Orthene 75S	1 lb	
	Orthene 1.3 lb/gal EC	2 qt (4 1/4 T/3 gallons)	
Pounce 3.2 EC	4-8 oz/A	Apply Pounce in sufficient gallonage to obtain good coverage. Excessive use may cause buildup of aphid population.	
Pales Weevil	Dursban 2 E	2 qt (4 T/3 gallons)	Apply thoroughly to foliage immediately after planting. Spray to point of runoff.
Pine Needle Scale	Diazinon 4 EC	1 pt (1 T/3 gallons)	
	Di-Syston 15 G (R)	Use 1-1.5 oz/tree	Work granules into soil and water thoroughly within 48 hours.
	Orthene 75S	2/3 lb	
	Superior oil, 70 sec.	2 gallons	A dormant spray may be applied in February. Apply other chemicals when crawlers are active, usually in May, June or July.
Sawflies	Malathion 57% EC	1 1/2 pt (1 1/2 T/3 gallons)	
	Provado 1.6F	4-8 fl oz	Two applications at 7- to 10-day interval may be required to achieve control with Provado.
	Sevin 80% S	1 1/4 lb	Sevin can cause substantial foliar burn on Virginia Pine.
	Sevin XLR	1 qt	