

Fruit Production Recommendations 2010-2011

Ontario Ministry of Agriculture, Food & Rural Affairs

Chapter 5: Berry Crops



Strawberry Calendar (planting year – non-bearing)

Read the product label and follow all safety precautions.

Consult the product label for suggested water volumes. Otherwise, use enough water to ensure thorough spray coverage.

Products are listed according to insecticide and fungicide family groups. Use products from different groups to help prevent pest resistance. For resistance management refer to *Pest Resistance to Insecticides, Fungicides, Miticides*, page 23.

For information on strawberry pest identification, monitoring and thresholds, see *ONTARIO CropIPM: Integrated Pest Management Training*, available at www.ontario.ca/cropIPM or as OMAFRA Publication AF141 in CD format.

For re-entry period, maximum number of applications and chemical group, see Table 5-19. *Products Used on Strawberries*, page 122.

Diseases and Insects	Products	Rate	Comments
Early June			
Strawberry leafroller	Malathion 25 W	4.25 kg/ha	Apply if leafrollers are easy to find.
One month after planting and again once or twice at 2 week intervals			
Common leaf spot	Copper 53 W	3.8 kg/ha	To control common leaf spot, protect new leaves as they unfold. Spray susceptible varieties such as Jewel, Mira, Kent, Veestar, MicMac. Copper: Spray copper alone. For instructions on mixing copper sprays, see <i>Use of Copper Products on Fruit Crops</i> , page 220.
	Supra Captan 80 WDG or Maestro 80 DF	4.25 kg/ha 4.25 kg/ha	
	Topas 250 E	500 mL/ha	
	Pristine WG	1.3 kg/ha	
July to mid-August			
Potato leafhopper	Malathion 25 W	4.25 kg/ha	Potato leafhoppers migrate long distances and can be especially problematic after nearby hay fields are mowed. Check underside of leaves and spray when nymphs are present. Repeated applications may be necessary. Surround WP: Apply at 7–14 day intervals when leafhoppers are first detected by monitoring. Use 12.5–25 kg/per 500 L of water. For early applications, use 25 kg/ha. Once a base coat is established, use 12.5 kg per 500 L of water per ha for subsequent sprays. Do not apply during bloom or when fruit is present. Surround may leave a white residue on fruit. See notes on <i>Kaolin Clay (Surround WP)</i> , page 17.
	Surround WP	25.0 kg/ha	
Powdery mildew	Nova 40 W	340 g/ha	Begin applications on susceptible varieties (Annapolis, Jewel, Veestar) when red leaf speckling first appears or when conditions (warm humid weather, or frequent dews) favour development. Alternate Nova with Pristine. Actinovate: Provides suppression rather than control; see Table 2-6. <i>Efficacy Ratings for Pesticides</i> , page 12. Spray to wet foliage but avoid
	Pristine WG	1.6 kg/ha	
	Actinovate SP	425 g/ha	

Diseases and Insects	Products	Rate	Comments
			runoff. See <i>Biopesticides for disease control</i> , page 13 and notes on <i>Streptomyces lydicus (Actinovate)</i> , page 13.
Common leaf spot	Topas 250 E Pristine WG Supra Captan 80 WDG or Maestro 80 DF	500 mL/ha 1.3 kg/ha 4.25 kg/ha 4.25 kg/ha	If leaf spot is present, continue fungicide applications at regular intervals, prior to wetting periods. Alternate products from different groups.
Mid-August and again once or twice at 2-week intervals			
Powdery mildew	Use one of the products listed under July to mid-August .		
Common leaf spot	Copper 53 W Supra Captan 80 WDG or Maestro 80 DF Topas 250 E Pristine WG	3.8 kg/ha 4.25 kg/ha 4.25 kg/ha 500 mL/ha 1.3 kg/ha	To control common leaf spot, protect new leaves as they unfold. Spray susceptible varieties such as Jewel, Mira, Kent, Veestar, MicMac. Alternate products from different groups. Copper: Spray copper alone. For instructions on mixing copper sprays, see <i>Use of Copper Products on Fruit Crops</i> , page 220.
Fall			
Red stele	Ridomil Gold 480 SL Aliette WDG	1.0 L/ha 5.6 kg/ha	This disease is sporadic and favoured by wet or compacted soil, and susceptible varieties (Table 5-23. <i>Strawberry Variety Disease Ratings</i> , page 126). To reduce the chance of resistance, spray only where red stele has been observed or a high risk situation occurs. Ridomil Gold: Make one application in early September and a second treatment in late October, no later than October 31. Apply in sufficient water (2,500 L/ha) to ensure movement into the root zone. Aliette: Make up to four applications per season, two in spring and two in fall. Apply as a foliar spray in spring when plants start active growth. Apply at 30–60 day intervals. Make fall applications when soil conditions favour disease development (e.g. high soil moisture, cool temperatures).

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