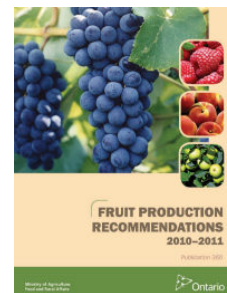


Fruit Production Recommendations 2010-2011

Ontario Ministry of Agriculture, Food & Rural Affairs Chapter 4: Apples



Guidelines for protecting non-bearing apple plantings

Diseases and Insects	Products	Comments
Early spring		
Phytophthora collar rot	Ridomil Gold 480 SL	
First spray		
Powdery mildew	Nova 40 W Nustar Sovran Flint 50 WG Pristine WG Dikar	Biopesticides are available for powdery mildew suppression. See Table 2-6. <i>Efficacy Ratings for Pesticides</i> , page 12 and notes on Serenade MAX , <i>Bacillus subtilis</i> (<i>Serenade ASO</i> , <i>Serenade MAX</i>) page 14.
Scab	Dikar Manzate Pro-stick or Dithane DG or Penncozeb 75 DF Polyram DF Supra Captan 80 WDG or Maestro 80 DF Pristine WG	When green tissue shows. Repeat at 7–10 day intervals if wet weather occurs until late June. Biopesticides are available for apple scab suppression and fire blight suppression. See Table 2-6. <i>Efficacy Ratings for Pesticides</i> , page 12 and notes on Serenade MAX , <i>Bacillus subtilis</i> (<i>Serenade ASO</i> , <i>Serenade MAX</i>), page 14.
Prebloom		
Tentiform leafminer	Assail 70 WP Actara 25 WG Calypso 480 SC Altacor Delegate WG Confirm 240 F Intrepid 240 F Pounce or Perm-Up or Ambush 500 EC Decis 5 EC Ripcord 400 EC or Up-Cyde 2.5 EC Matador 120 EC	Pounce, Ambush, Perm-Up, Ripcord, Up-Cyde, Decis, Matador, Silencer (pyrethroids): Do not apply more than once per season. Highly toxic to beneficial insects and may lead to outbreaks of European red mite.

Diseases and Insects	Products	Comments
	or Silencer 120 EC	
Leaf-feeding caterpillars	Imidan 50 WP Guthion 50 WSB or Sniper Zolone Flo	Apply when caterpillars are small. Include with a fungicide spray. Not necessary if a pyrethroid was used for tentiform leafminer.
Bloom		
Fire blight	Streptomycin 17	Avoid over stimulating growth. Biopesticides are available for fire blight suppression. See Table 2-6. <i>Efficacy Ratings for Pesticides</i> , page 12 and notes on Serenade MAX , <i>Bacillus subtilis</i> (Serenade ASO, Serenade MAX), page 14.
Postbloom		
Leaf curling midge	Ripcord 400 EC or Up-Cyde 2.5 EC	
Summer sprays		
Leaf-feeding insects	Imidan 50 WP Guthion 50 WSB or Sniper Zolone Flo	This spray will also control potato leafhopper.
Aphids	Admire 240 F or Alias 240 SC Assail 70 WP Actara 25 WG Movento 240 SC Thionex 50 W Diazinon 50 W	Spray if insects become abundant at any time.
White apple leafhopper	Admire 240 F or Alias 240 SC Assail 70 WP Calypso 480 SC Thionex 50 W	
Potato leafhopper	Assail 70 WP Calypso 480 EC Thionex 50 W	
Tentiform leafminer	Admire 240 F or Alias 240 SC Assail 70 WP Actara 25 WG Calypso 480 EC	Vydate is very toxic to applicator. Timing is critical. If mines are visible on underleaf surface, consult crop consultant.

Diseases and Insects	Products	Comments
	Altacor Delegate WG Vydate L	
Mites	Pyramite or Nexter Acramite 50 WS Envidor 240 SC Kanemite 15 SC Carzol SP	Check foliage frequently for mite injury. Spray if more than 10 mites per leaf are observed or at first sign of leaf bronzing.
Buffalo treehopper		Follow clean cultivation practices or remove legumes from cover crop.
Phytophthora collar rot	Ridomil Gold 480 SL	
Root lesion nematode		See <i>Nematodes</i> , page 193, and <i>Nematode suppression after planting</i> , page 195.

This program is designed to offer limited protection when needed for newly planted trees. It is not intended for protection of bearing orchards. To minimize pest pressure, remove neglected fruit trees in the area and control weeds. Alternate materials are available as shown in the calendar for bearing fruits.

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