MINISTRY OF AGRICULTURE
FOOD & RURAL AFFAIRS

Ontario

Ontario Apple IPM

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Apple Pest & Beneficial Activity in Ontario

The periods of pest and beneficial activity illustrated below are general guidelines based upon both Ontario field experience and pest biology research. The actual period of activity for any given pest will vary significantly from year to year, depending on over-wintering conditions; seasonal temperature accumulation; relative humidity; rainfall; prevailing wind patterns; and other environmental factors.

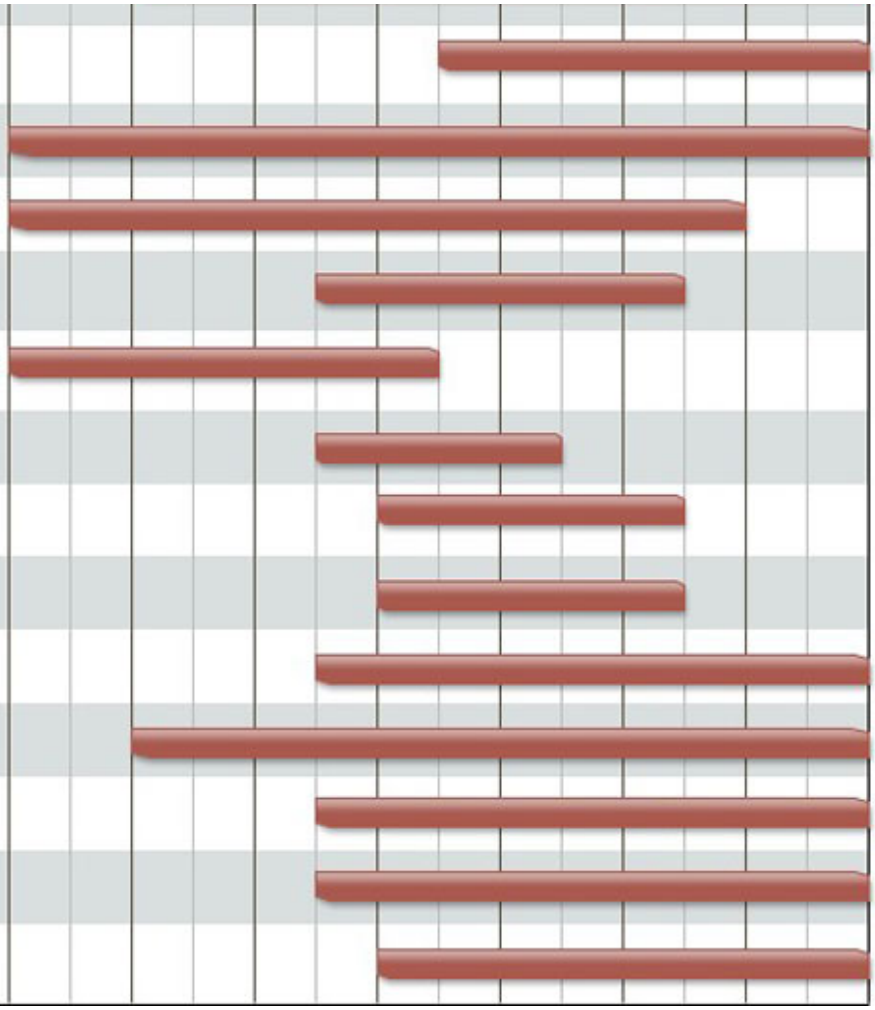
Click on an insect, disease or beneficial for more information.

INSECT PESTS	Life stage	# of gene-rations	Phenology: Half inch green	Tight cluster	Pink	Bloom	Petal fall (calyx)	Early summer	Mid summer	Pre-harvest
Mullein plant bug	Larvae	2								
Spring-feeding caterpillars	Larvae	Various								
Spotted tentiform leafminer	Larvae in mines	2-3								
Green apple aphid	Colonies	14-15								
Rosy apple aphid	Colonies	3								
Redbanded leafroller	Larvae	2+								
Tarnished plant bug	Adults	2-4								
European red mite	Motile forms	6-8								
Obliquebanded leafroller	Larvae	2								
Plum curculio	Adults	1-3								
White apple leafhopper	Nymphs	1-3								
Codling moth	Adults	1-2								

Codling moth	Adults	1-2
European apple sawfly	Larvae/ adult	1
San Jose scale	Crawlers	1
Twospotted spider mite	Motile forms	6-8
Woolly apple aphid	Colonies	9-10
Apple maggot	Adults	1
Oriental fruit moth	Adults	3-4
Potato Leafhopper	Nymphs	2-4
Dogwood borer	Adults	1

APPLE DISEASES	Phenology										
	Dormant	Silver tip	Green tip	Half inch green	Tight cluster	Pink	Bloom	Petal fall calyx	Early sum-mer	Mid sum-mer	Pre-harve st
Powdery mildew											
Apple scab											
Rust diseases											
Flyspeck											
Sooty blotch											
Fire blight											
Blossom end rot											
Black rot											
Canker diseases											
Blister spot											

APPLE BENEFICIALS	Life stage	# of generat ions	Phenology						
			Tight cluster	Pink	Bloom	Petal fall (calyx)	Early summer	Mid summer	Pre-harvest
Phytoseiid mites	Eggs and motile forms	4-6							
Stigmaeid/ Yellow mites	Eggs and motile forms	3-4							
Red velvet mites									

Spiders	Motile stages	1	
Lady beetles	Larvae and adults	1	
Stethorus punctum	Adults	2-4	
Gall midges	Larvae	3-4	
Hover flies	Active stages	Various	
Tachinid flies	Larvae and adults	Various	
Stink bugs	Larvae and adults	1-2	
Assassin bugs	Larvae and adults	1	
Mullein plant bug	Larvae and adults	2	
Bees and bumble bees	Active stages	1	
Ichneumonid parasitic wasps	Adults	Various	
Braconid and chalcid wasps	Adults	Various	
Lacewings	All stages	2-3	

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