

# Grape insect and mite management throughout the growing season, 2013

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## Infosheet

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The following table was developed as a means of summarizing the information provided in OMAFRA Publication 360 – Fruit Production Recommendations 2012-13, including new products for 2013. It highlights the periods during the growing season when specific insects/mites may be a problem and which insecticides are recommended at a particular growth stage.

The main purpose of this table is to give some idea of the insecticides that may be used throughout the season to manage specific insects present in your vineyard. However, this table is not meant as method of indicating compatibility of products in a spray mixture. You should read the label to determine whether an insecticide will cause injury (e.g. burning or discoloration) on a particular variety or under specific drying conditions and also whether specific tank mixes are not recommended. (See Table 6-5 Publication 360 as well as fungicide labels.). It is also important that **you confirm that a particular fungicide is acceptable for use by your processor and follow their pre-harvest intervals** for individual pesticides

**How to use this table:** The table is broken down by growth stage and within each growth stage the diseases that may be present are listed.

**Large bold +** = registered use but not necessarily recommended for this timing

**Large bold Shaded cells** = OMAF recommended use pattern for registered uses for products

Small + = collateral control; uses not registered but listed based on efficacy listed in various publications and reports from research trials

? = not confirmed in grapes; + = suppression; ++ = moderate control; +++ excellent control

The products are grouped by insecticide family in the columns and products with the same shading belong to the same family. For example, Ambush, PermUP and Pounce all contain the same active ingredients; Admire, Assail and Clutch are all neonicotinoid insecticides. Products containing the same active ingredient are in one cell (eg. Ambush and Perm-Up).

**For resistance management for grape berry moth, use the same chemical family for each generation then rotate to a different chemical family.**

Growth Stage	Pest	Imidan 50WP (1B)	Malathion (1B)	Ambush Perm-Up (3)	Pounce Up-Cyde (3)	Ripcord (3)	Pyganic (3)	Admiral (4)	Assail (4)	Clutch (4)	Delegate (5)	Enturst Success (5)	Agri-Mek (6)	Bioprotec CAF (11)	Dipel	Nexter (21)	Envirdor (23)	Movento 240 SC (23)	Acramite (25)	Altaeor (28)	Surround WP (U)	Purespray Green Spray oil (U)	Isomate GBM	sulphurs	
Dormant – budbreak	Flea beetle				+++																				
	Cutworm				+++															+++					
	ERM																					+++			
1-5 leaves	Flea beetle				+++																				
	Cutworm				+++																+++				
	ERM																					+++			
20-25 cm shoot growth	1 <sup>st</sup> generation GBM																							+++	
	Phylloxera								++++	++++									+++						
	Erineum mite																								++
Immediate pre-bloom	Japanese beetle			++			+	+++	+++	+++											++	+			
	Leafhoppers			++			+	+++	+++	+++												++	?		
	Phylloxera							+++	+++	+++									+++						
	Erineum mite																								++
Immediate post-bloom	Leafhoppers			++			+	+++	+++	+++												++	?		
	Japanese beetle			++				+++	+++	+++												+			
Fruit set to pea-size berry	2 <sup>nd</sup> generation GBM	+		++++	++++				+	*	++++	++++		++								+++			
	Japanese beetle	++		++	++				+++	+++												++	+		
	Phylloxera								+++	+++									+++						
Berry touch	ERM												+++			++++	++++		++				+++		
	Erineum mite												+			+	+++								++
Veraison to early Sept.	3 <sup>rd</sup> generation GBM			++++	++++		++				++++	++++		++								+++			
	ERM												+++			++++	++++		++				+++		
Pre-harvest	4 <sup>th</sup> generation GBM		++	++++	++++						++++	++++		++								+++			
	MALB		+++			+++																			
	Wasps		+++			+++																			
Max # apps/yr		3	1	3	3	2	3	2	2	2	2	2	2	6	1	1			1	2			1		

\* at labelled rate

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