

Insecticides for use in New York and Pennsylvania Vineyards

Coming up with the best timing of the various types of insecticides has always been a good topic of discussion. Andy Muza and Tim Weigle have put together a Table: [Insecticides for use in New York and Pennsylvania Vineyards](#) (based on one developed by Rufus Isaacs at Michigan State University).

The hope is that this Table will be of help in determining the different modes of action to assist you, the grower, in selecting the best insecticide and timings as well as to assist you in developing a resistance management program. Time materials that need to be ingested close to 1620 DD as determined by the GBM model on NEWA and for contact materials wait an additional 100 DD and apply them at 1720 for the best efficacy.

To get the latest in model information for both [grape berry moth](#) and the grape diseases, [powdery mildew](#), [downy mildew](#), [black rot](#) and [Phomopsis](#), get on the NEWA website at <http://newa.cornell.edu> and access the station, or stations, nearest you.

Table 2. Insecticides for use in New York and Pennsylvania Vineyards

Insecticide	IRAC Number	Control method	Longevity	GBM	Leafhopper	Japanese Beetle	Toxic to Natural Enemies
Delegate	5	C, I	**	***	*	*	Moderate
Spintor/Entrust	5	C, I	**	**	*	-	Moderate
Biobit, Dipel	11	I	*	**	-	-	Safe
Movento	23	S, C, I	***	Phyloxera control only			Moderate
Altacor	28	C, I	***	***	*	***	Moderate
Belt	28	C, I	***	***	-	-	Moderate
Voliam Flexi	28	S, C, I	****	***	***	***	Moderate
Intrepid^	18	I	****	***	-	-	Safe
Sevin	1A	C	**	**	***	***	Toxic
Imidan	1B	C	***	***	**	***	Moderate
Avaunt	22A	C, I	**	**	*	**	Moderate
Tourismo	28 + 16	C, I	****	***	-	-	Moderate
Evergreen	27A + 3A	C	*	*	*	***	Moderate
Baythroid	3A	C	***	***	****	***	Toxic
Brigade/Capture	3A	C	***	***	****	***	Toxic
Danitol	3A	C	***	***	****	***	Toxic
Leverage 360	3A	S, C, I	****	***	***	***	Moderate
Mustang Max	3A	C	***	***	****	***	Toxic
Provado	3A	S, C, I	****	-	****	***	Moderate
Pyganic	3A	C	*	*	*	**	Moderate
Actara	4A	S, C, I	****	**	***	***	Moderate
Admire Pro	4A	S, I	****	-	***	**	Safe
Assail	4A	S, C, I	***	-	***	***	Moderate
Venom, Scorpion	4A	S, C, I	****	**	****	***	Moderate
Brigadier	4A + 3A	S, C, I	****	***	***	***	Toxic

^ = not registered for use in New York

Control Method

S = systemic locally or through vine

C = Contact activity

I = ingestion required

Longevity Rating

* = 3-5 days

** = 7 days

*** = 7-10 days

**** = 10 - 14 days

IRAC Number indicates Mode of Action and Chemical sub-group for the insecticide. Rotating mode of actions will decrease the chance of resistance development.