



IPM Solutions for Wine Grapes (San Joaquin Valley)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Crop development	Dormant period		Bud break		Bloom		Veraison		Harvest		Dormant period	
Diseases	<p>Trilogy® BOTANICAL FUNGICIDE/MITICIDE</p> <p>Apply 1 gallon of Trilogy® per 100 gallons of spray (1% concentration) at any customary spray timing to control powdery mildew and <i>Botrytis</i>. For best results at lowest cost, use Trilogy up to bunch closure as part of a rotational program with other fungicides. Allow at least 3 days between Trilogy and sulfur applications.</p> <p>Powdery mildew</p> <p><i>Phomopsis</i> cane and leaf spot Black measles <i>Eutypa</i> dieback</p> <p><i>Botrytis</i> bunch rot</p> <p>If leaves are removed, <i>Botrytis</i> may be controlled with a single bloom application.</p> <p><i>Botrytis</i> bunch rot</p> <p><i>Eutypa</i> dieback</p>											
Insects and mites	<p>Deliver® BIOLOGICAL INSECTICIDE</p> <p>Neemix® INSECT GROWTH REGULATOR</p> <p>Apply Deliver® at 0.5 to 1 lb per acre for worm control. Make 2 applications, 10-14 days apart, starting prior to bunch closure. Repeat against subsequent larval generations (June - August) if necessary. Used alone, Deliver is most effective against small larvae before they roll the leaves. Deliver also can be mixed with Neemix® at 2 qt or Neemix® 4.5 at 8 oz per acre to enhance control of leafrollers.</p> <p>Omnivorous leafroller*</p> <p>Grape leafroller*</p> <p>Western grapeleaf skeletonizer</p> <p>Applications directed against omnivorous leafroller also control western grapeleaf skeletonizer.</p> <p>Trilogy® BOTANICAL FUNGICIDE/MITICIDE</p> <p>Trilogy (1%) applied for disease control will also control spider mites and suppress leafhoppers. Trilogy can also be applied specifically as an acaricide for knock-down of late season mite populations with zero PHI. Trilogy cannot be applied to table grapes after bloom or to winegrapes after bunch closure: Grape mealybug: <i>Pseudococcus maritimus</i>. Obscure mealybug: <i>Pseudococcus viburni</i>. Longtailed mealybug: <i>Pseudococcus longispinus</i>.</p> <p>Mealybugs</p> <p>Mealybugs</p> <p>Mealybugs</p> <p>Leafhoppers</p> <p>Leafhoppers</p> <p>Spider mites</p>											

*Control of these pests with Deliver will also provide control of Light Brown Apple Moth.